

TECHNICAL BROCHURE

International Full Stack Architecture Certificate Program



01

ABOUT US

Ownership of 84 Educational Institutions. DACH is Part of Prestigious JAIN INSTITUTIONS - INDIA .

Ownership of DACH – LMS - World's Premier Learning Management System with Artificial Intelligence Capabilities...More Advanced LMS in the Market.

Approx 8000,000 Trainees have been Certified as Skilled, Up-skilling & Reskilling across 2000+ Courses with our Institutions in the last 10 years.

For the Current Year 2023-2024, Approximately 18,000 Trainees are currently pursuing their Courses with our various institutions from K12 to Ph.D.'s – On Campus Mode.

Currently 40,000 Trainees are pursuing courses from Graduation to MBAs on our “Learn. Online” Platform

The Group Owns 7 Universities, 15 Colleges, 1 Allied Health Care, 60+ DACH centers across India with combined revenue of \$2Billion for the Year 2022 -2023.

DACH is the Only Group to be associated with Accredited Certification Partner with KPMG, Microsoft, Oracle, EC – Council & Institute of Analytics – UK on the Emerging Technologies Courses.

DACH is an Accredited training partner with 115 Universities and institutions across Globe in FAAT – Finance – Auditing – Accounting – Taxation.

DACH Performed 50+ Consulting Assignments in the last two years with Fortune 500 companies in Data Analytics & Data Science.

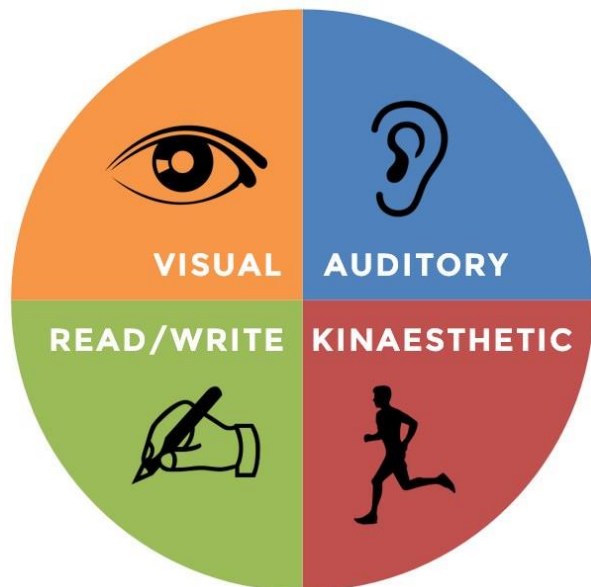
We are the Creator of World's largest repository with 20,000 pages of contents on Data Science / Data Analytics – Artificial Intelligence contents with coding.

We are Leaders in Banking, Financial, Service & Insurance sector with 150+ courses from technology to Core Subjects – ACCA, CIBO, LOMA, CFA & 17 more institutions.



02

Learning Style Adaptation



Adapt & Adopt Different Learning Styles & PACES



Visual learners: DACH provides a great deal of opportunity to Visual learners learn best by viewing images, graphics, animations, or videos. To cater to visual learners, use charts, graphics, and videos in your training materials.



Auditory learners: DACH emphasis more on reciprocator learning style i.e., Auditory learners learn best by listening and speaking. To cater to auditory learners, use lectures or discussions (either in person or via podcasts and audio recordings), and encourage them to talk through ideas or concepts with others.



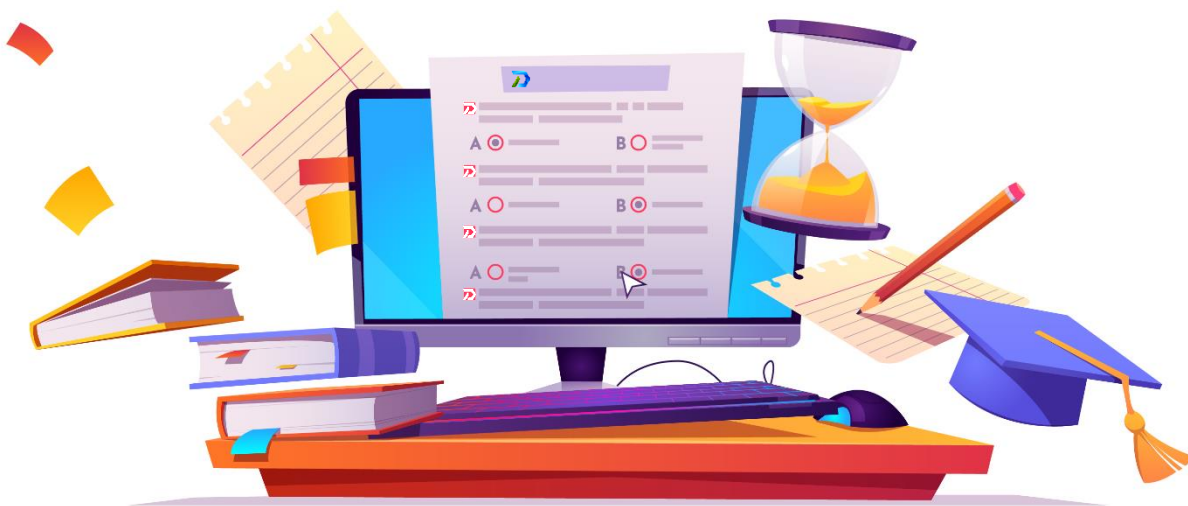
Reading and writing learners: One of the success criteria of DACH Program are Reading and writing learners learn best by reading books or articles and then writing down what they've learned. To cater to reading and writing learners, provide reports, video transcripts, or case studies. Encourage them to take detailed notes and write to-do lists to organize their thoughts.



Kinesthetic learners: We focus more on Real – life examples, case studies, projects that why we are one of the few in the world to deliver our training based on Kinesthetic learners learning best by doing. To cater to kinesthetic learners, provide hands-on activities such as trial and error, touching and handling objects, and role-playing real-life situations.



Chools LMS Platform



- World-class LMS –Online/Offline Mode with the Exam Portal.
- Dedicated CHATBOX for Trainee support.
- 1000+ Trainees in one single sessions in LMS.
- Recorded sessions.
- Access to 10 Soft skills eLearning program to ace communication & Interview preparation.
- Pre-Recorded sessions available.
- Digital Library access throughout the course & 1 Year access Post Completion of the program.

Programs	Software Installation	LMS Integration	Coding	Foundation Program
Full Stack Architecture	Eclipse IDE, JDK, python, Mysql version 8.0 and SQL Yog, STS, Java 8 and above, and VS Code	80+ fields from Name to Certification details with Organization details	16 hrs	8 hrs

BOOT CAMP

03 CLIENTS TESTMONIALS



CHOOOLS-DTC has done a great work with our team on multiple fronts, production initiatives and savings projects based on VSM method, top that with the cultural improvement and change team mind set to think as an owner vs employee, I am available for any inquires.

Bassem Sabra
Chief Executive Officer
Al Rabie Saudi Foods Co, Ltd.



“Having trained 10000+ professional across the world in emerging technologies, We MICROSOFT team are privileged to be associated with Chools-DTC Learning academy.”

Mr. Tanmay Sahoo
President Strategic Alliance – Microsoft
Microsoft India



When it comes to Big Data or Analytics, It is chools-DTC, we trust. Proud to Say Chools-DTC trained our team of 48 professionals on Data Analytics, Advance Statistics and Statistical Business Modelling for the Perfetti Business. We are proud to be associated with Chools-DTC.

Mr. Shridhar Kulkarni
Director & Chief Supply Chain Officer
Perfetti Van Melle

03

CLIENTS TESTMONIALS



“The State-of-the-Art solutions provided by Chools-DTC to ROSHN in the field of data science and Artificial intelligence is beyond world class. Chools-DTC ability to train our staffs in the field of Data Science and Business analytics and their mentoring and coaching program is top class. We ROSHN benefitted thoroughly out of Chools-DTC Collaboration. We strongly recommend Chools-DTC to anyone willing to pursue in the field of AI & Data Science.”

Mr. N.Rajesh Kumar

**Head – Governance, Risk & Compliance – IT Solutions
Roshn Saudi Arabia – A PIF Company**



An incredibly talented individual and a perfect human. I was one of those lucky ones who got trained by Satish on Data Science and all our projects got completed in 90 -days record completion of a PepsiCo Category Forecasting model. The project nature is highly complex & Big data management. Satish was instrumental in getting the maximum result in a short span of time. His in-depth SME knowledge helped many people to get certified as such high-level recognition. I wish him all the success in his future endeavors..

Mr.Mohamed Hasan

**Consumer Insights – Pepsico
USA - Florida**



04

SCOPE OF WORK



The Full Stack Architecture Program refers to the development of both front-end (client-side) and back-end (server-side) parts of a web application.



This involves using Java, Python programming languages for server-side development, along with front-end technologies like HTML, CSS, JavaScript, and frameworks like Angular.



The program last for 160 hours and offer Live Projects, Assignments, Industrial case studies and certification opportunities.



The program uses real data from different domains, such as sports, entertainment, healthcare, finance, and retail



The program prepares learners for careers such as web developer, Mobile application developer, and marketing analyst.



The Program is accredited by Microsoft & Oracle. There will be Joint Certification from Microsoft & Chools Group - USA.



FULL STACK & VISUALIZATION

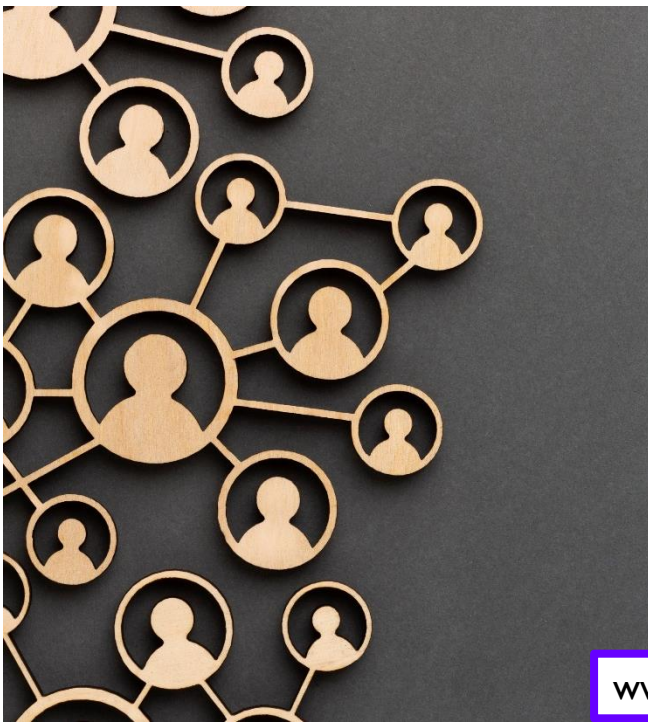
- **Understanding Web Development Concepts:**
 - Understand the principles and best practices of web development, such as responsive design, accessibility, security, and performance
 - Learn how to use various front-end technologies, such as HTML, CSS, JavaScript, React, Angular, Vue, etc., to create dynamic and interactive user interfaces.
- **API Fundamentals:**
 - Learn how to use various back-end technologies, such as Node.js, Express, Django, Flask, Ruby on Rails, etc., to create RESTful APIs, handle authentication, authorization, and session management, and connect to different databases, such as MongoDB, MySQL, PostgreSQL, etc.
- **Visualization:**
 - Design web applications using different approaches, such as MVC, MVVM, micro services, serverless, etc., and apply design patterns, such as singleton, factory, observer, etc., to solve common problems.
 - Troubleshoot and debug web applications using various tools and techniques, such as browser dev tools, console, breakpoints, logging, etc.
- **Modeling and Programming abilities:**
 - Build and assess Web applications and mobile applications.
 - Use programming skills e.g. Java, Python, CSS, HTML, Databases SQL, Bootstrap.
- **Data Management Skills:**
 - Exhibit skill in data management.
 - Apply full stack concepts to solve real-world problems effectively.



05

TARGET AUDIENCE

- Individuals, Who are interested in web development, mobile applications and programming.
- Professionals, who want to upskill or Trainees who want to learn more about full stack.
- The program could be designed to cater to beginners or advanced learners.
- Minimum Participants: We expect minimum participation of 50 Trainees per batch.
- Maximum Participants: We expect maximum participation of 100 Trainees per batch.



Today a full stack developer is one of the highest-paid Information technology professionals.

Skills Being a full-stack developer means participants have knowledge about a lot of things such as front-end development, back-end development, DevOps tools, Database management, and as well as participants know about UI and UX designing.



06

PREREQUISITES



Mathematics till higher secondary school level.



Pursuing or Completion of Bachelor's or Masters.



U.G or P.G with at least 50% marks in aggregate or equivalent.



No Coding Experience Required.



SKILLS SETS & VALUE ADD FOR PARTICIPANTS

Combination of technical and interpersonal skills. Here are some of the key skills that can be developed through a full stack architecture program:

01

JAVA

Java is a high-level, class-based, object-oriented programming language that is designed to have as few implementation dependencies as possible.



02

SQL

Structured Query Language is a powerful tool for handling large sets of data.



HTML

Hyper Text Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser.



03

04

CSS

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML.



07 CAREER SUPPORT



► **DACH Industry mentorship:** One-on-one mentorship with industry experts can provide personalized career advice and help Trainees develop the skills they need to succeed in the field.

► **DACH Career counselling:** Career counselling from DACH to help Trainees identify their strengths and interests and develop a plan for achieving their career goals.

► **DACH Resume and cover letter review:** Resume and cover letter review services from DACH can help Trainees create effective job application materials that highlight their skills and experience.

► **DACH Interview preparation:** Interview preparation services from DACH can help Trainees prepare for job interviews by providing tips on how to answer common interview questions and how to present themselves professionally.

PROGRAM ASSESSMENT

DACH Phillips ROI Model

This model measures the return on investment (ROI) of a training program by comparing the monetary benefits of the program with its costs. Cost of the training Vs Trainees Placement in the Job Market (Salary Composition)



DACH Kaufman's Five Levels of Evaluation

This model evaluates our Full Stack Architecture training program based on five levels:

Level 1

Input – Evaluates the resources used in the training program.

Level 2

Process – Evaluates how well the training program was delivered.

Level 3

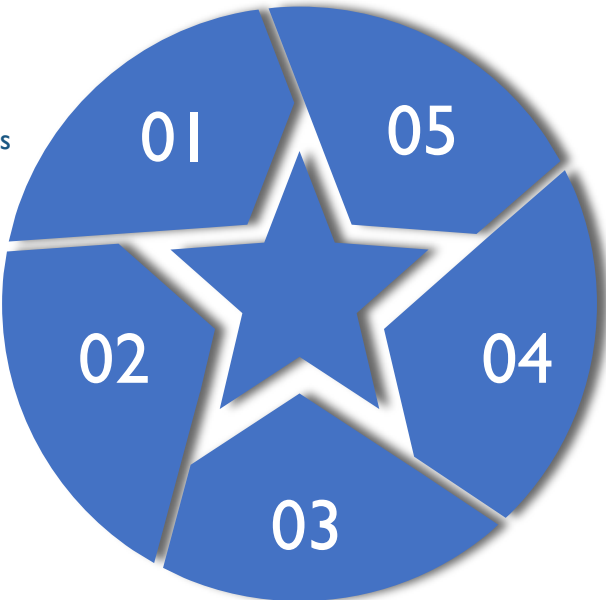
Output – Evaluates what was produced by the training program.

Level 5

Impact – Evaluates how well the outcome impacted its intended audience.

Level 4

Outcome – Evaluates how well the output achieved its intended purpose.





08 TRAINEE JOURNEY





Assess All Trainees

01

There will be a Subjective Assessment for 60 minutes, 120 question assessing the Trainees on Logical Reasons, Psychometric analysis, Abstract thinking & Numerical evaluations.

Choose the Right Programs

02

Based on the Scoring criteria on Subjective assessments the Trainees will be enrolled in the following courses given below:

- 60% to 70 - Enrol to Data Analytics program.
- 71 to 80 – Enrol to Data Architecture program.
- 80% - Enrol to Full Stack Architecture program.

Enroll to the Program

03

Registration link to be sent to Trainees from Financial Academy to enroll into the program.

Admission

04

Completing the admission process by financial academy as per the organization protocol and hand over the Trainees' information to DACH for orientation program.

Orientation Program

05

Welcoming Trainees by Project Team, giving them brief about the programs, introduction to Faculties, introduction to course materials, structure, course curriculum, courseware in digital libraries etc.

LMS & Exam Portal Setup

06

DACH team to set up the complete profile of the Trainees in LMS, Exam portal, membership registration in Microsoft, Digital libraries, 365datascience – Recorded Sessions, Batch activation etc.



Complete Full stack Architecture

07

Complete 160 hours of 80 days of 2 hrs. per day the Advanced cyber security program with 90% attendance to Live Sessions, 85% completion of Class assignments, completion of minimum of 4 capstone projects, 2 research papers or thesis.

Complete Live Capstone

08

- Complete one live capstone project based on live data from DACH
- Complete second live capstone project based on live data from the DACH – Microsoft.

Final Assessment

09

- Live online 180 minutes – Theoretical & practical of final assessment at any location with stable internet connection.
- The Pass mark will be based on the Group Grading, Geographic grading and Global Grading.

Receive Certificate

10

Upon Successful completion of Courseware, completion of assignments, completion of capstone projects, completion assessment, the candidate will receive the certificate with accreditation from Microsoft under the Cohort of DACH – Finance Academy endorsement.

Career Coaching

11

Attending Value added programs on 5 Group – Career Coaching sessions spanning 5 hrs with information related to Job markets, Job availability, career progressions, Knowledge – Abilities– Skillsets related to Job interviews.

Interview Preparation

12

Attending Value added programs on 3 sessions of Interview preparation spanning 90 minutes (30 minutes per session per Trainee* 3 times) covering interview MCQ's, practicing interview questions – technical & Soft skills, Resume builder, listening 7 to 10 eLearning videos on Full Stack on how to clear the interviews and make it Job Ready.



09

PROJECT DURATION



PHASES	SETTING THE STAGE			IMPLEMENTATION		
	M1	M2	M3	M4	M5	M6
Months						
Outreach	x					
Subjective Assessment		x				
Selection		x				
Decision		x				
Learnathon - Training		x	x	x	x	x
Assessment						x
Project						x
Certification						x
Celebrations						x

TRAINING PROGRAM OVERVIEW





10 TRAINING PROGRAM OVERVIEW**

** Note: The Course curriculum given in the separate document.

PROGRAM DESCRIPTION

This training program utilizes the best aspiring participants and acquired the basic skills needed to excel in the field of distinctive full stack using diverse tools.

It lasts for 80 days (160 hours) of theoretical training and practical application as well as enabling cases and a graduation project to obtain the technical skills for the track of an expert in full stack.



PROGRAM OBJECTIVES

- The primary learning objective for a Full stack Python program is to equip students can learn the development of both front-end (client-side) and back-end (server-side) parts of a web application.
- This includes the basic systems and techniques to develop web application, such as Python, MongoDB, Django, Bootstrap, MySQL, JavaScript, HTML and CSS.
- Troubleshoot and debug web applications using various tools and techniques, such as browser dev tools, console, breakpoints, logging, etc..





CASE STUDIES & CAPSTONE PROJECTS:

Case studies and capstone projects are an integral part of full stack programs. Here are some advantages of these projects:



TRAINING PROGRAM CURRICULUM

- Topic 1:** Introduction of Programming - 1 Module
- Topic 2:** Java & J2EE - 12 Modules
- Topic 3:** Python - 1 Module
- Topic 4:** MySQL, SQL & MongoDB- 3 Modules
- Topic 5:** HTML & CSS - 2 Modules
- Topic 6:** Javascript - 2 Modules
- Topic 7:** Ajax & Angular - 2 Modules
- Topic 8:** Spring & Hibernate - 2 Modules

Real-world experience

Case studies and capstone projects provide Trainees with hands-on experience in solving real-world problems. This helps them develop practical skills that are essential for a career in full stack.

Networking

These projects provide opportunities for Trainees to interact with industry professionals and build their professional network.

**** Note:** The Course curriculum given in the separate document

Portfolio building

Case studies and capstone projects can be added to a Trainee's portfolio, which can help them stand out when applying for jobs.

Collaboration

These projects often require Trainees to work in teams, which helps them develop collaboration and communication skills.

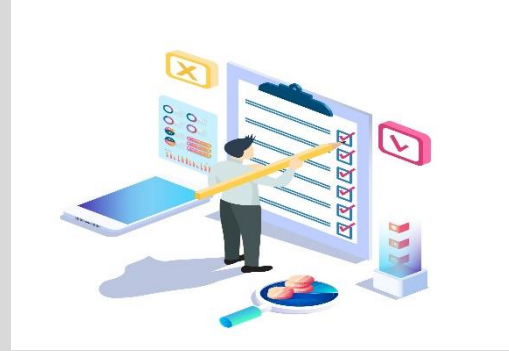


DURATION

- **Total Duration:** 160 Days
- **Duration Per Day:** 2 Hrs
- **Number of Weekdays:** 80

ASSESSMENT METHODS

- **Assessments:** 1 Final Exam
- **Case studies:** 4
- **Capstone Projects:** 4 Live Projects
- **Class Assessments:** 50



MODE OF DELIVERY:

- **Mode of Delivery:** Online
- **Live Classes:** Yes
- **Recorded Sessions:** Available for 12 months

CONCLUSIONS:

Implementing a comprehensive training program for the Trainees of The Finance Academy on the Full Stack Architecture will empower Trainees to effectively crack the Job interviews, streamline Software processes in their respective organizations, and optimize business performance. We believe that this training initiative is crucial for maximizing the benefits of Software development in KSA matching its Vision-2023 and ensuring the success of our Finance Academy efforts.

We kindly request your support and approval to proceed with this training program. We thank you for considering this proposal, and we are available to discuss it further at your convenience.





INSTRUCTORS PROFILES



Vishal Petkar

- Ph.D. in Computer Science
- MSc in Information Technology
- *SME in Software Development,*
- *Technical Training in Data Science, Data Analytics & Full Stack Architecture*
- *Technical Course Design, Development and Enrichment*



Bheemesh Raghupathy

- Certified Ethical Hacker
- EC Council Certified Security Analyst trainer
- Cyber Security Foundation Professional Certificate - CSFPC™
- Oracle Certified Associate, Java SE 8 Programmer
- Oracle Certified Professional, Java SE 8 Programmer
- Prolific experience in Data Analytics and Data Science



Sagar R

- Java, Hibernate & Spring Boot, Python, Django
- Panda, JavaScript, SQL, Manual Testing, Automation Testing, Selenium
- Test NG, Data Science, Data Analytics, Big Data, Python Specialist.
- Specialist t in Data Architecture, Hadoop – Data Lakes



Sandhiya B

- *M.E in Computer Science Engineering, with Thesis focuses on Image Processing, Biometrics.*
- *Trained 2000+ professionals in Full Stack Programs*
- *Ability to deliver lecture, and hold group conversation on related-topic with students.*
- *Published 6 books in international Journals*



THANK YOU

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