

ABHIJITH P

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Experience

Software Engineer – Tata Consultancy Services (TCS)

Aug 2024 – Present

- Enhanced digital lending workflows by customizing Murabaha and Ijara financing modules in Java, J2EE, Hibernate, and SQL, enabling SNB employees to process 1,000+ loan applications weekly in compliance with Islamic finance principles.
- Improved loan approval turnaround by 20% by refactoring batch processes and optimizing database queries for eligibility checks, reducing delays in credit assessment and disbursal.
- Contributed to compliance reporting features by integrating AML/KYC checks into TCS BaNCS dashboards, allowing staff to generate regulatory audit reports faster and reducing manual reconciliation effort by 25%.

Technical Skills

Programming Languages: Java, JavaScript, Python

Tools & Frameworks: Spring Boot, SQL, FastAPI, XML, SOAP Services

Projects

Automated Object Orientation System

- Developed and implemented an object detection and classification system utilizing **TensorFlow** and **OpenCV**, ensuring accurate identification and categorization of an object's orientation on a conveyor belt.
- Integrated established seamless communication protocols between Python-based machine learning algorithms and Arduino micro-controller, enabling real-time command and control of the robotic arm for automated object orientation adjustments.

SUITS – Digital Assistant

- Developed a generative AI chat bot which can access data from multiple PDF and provide answers based on user prompt.
- Used Gemini-AI pro API, **FAISS** and **Langchain** libraries for data embedding and storing vector data. Deployed as a web app using streamlit library and integrated inside a bootstrap website.

Education

B.Tech in Electrical and Electronics Engineering

NSS College of Engineering, Palakkad | Sept 2020 – May 2024

XII – Computer Science

Jawahar Navodaya Vidyalaya, Kasaragod | June 2019 – May 2020

Certifications

- Google Cloud Digital Leader
- SQL and Relational Databases – IBM

Positions of Responsibility and Achievements

- Chairman – IEEE Student Branch NSSCE (Coordinated 30+ events, led 72-member team).
- IEEE STEM Champion – Recognized among 26 global winners by IEEE TryEngineering.
- Facilitator – Google Cloud Career Practitioner Program (Guided 100+ students).