

Saurin Anilkumar Prajapati

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PROFESSIONAL SUMMARY

Results-driven **Software Engineer** with proven success delivering end-to-end solutions in **banking, healthcare, and AI/ML** across APAC and MENA. Skilled in building **scalable applications, backend services, and ETL pipelines** using Python, Java, SQL, and SAS. Experienced in developing **dashboards, ML pipelines, and IFRS9 risk frameworks** that enhanced efficiency, compliance, and decision-making. Strong foundation in software development, data engineering, and cloud computing, with a focus on designing secure, production-ready systems. Currently **seeking full-time Software Development roles** to build innovative, high-impact solutions.

CORE COMPETENCIES AND TECHNICAL SKILLSET

Domain Expertise: Credit Risk Strategy, Banking, IFRS9 Implementation, Healthcare Analytics
Programming & Frameworks: Proficient in Python, Java, JavaScript; Experienced with Flask, Django, Spring Boot, Spring Cloud, Spring Security, Node.js, Express.js, React.js, HTML/CSS; Familiar with SAS Base, C++, TypeScript, Ruby
Databases & Software Development: REST APIs, Git, Agile/Scrum, JIRA, MySQL, PostgreSQL, MongoDB, DynamoDB, Redis
Cloud & DevOps: AWS (S3, Lambda, EC2, SQS), GCP, Docker, Kubernetes, CI/CD Pipelines
Data Science & AI/ML: Machine Learning, Deep Learning, Generative AI, LLMs, LangChain, LangGraph, Scikit-learn, Pandas, PyTorch, Apache Spark, ETL Pipelines, MLOps

PROFESSIONAL EXPERIENCE

Business Analyst/SDE, Advanced Analytics **Jul 2023 - Jul 2024**
Quintics Management (Sutra Management) Hanoi, Vietnam | Dubai, UAE

- Designed and deployed a **production-grade health crises dashboard** for 150+ facilities, enabling real-time monitoring and efficient resource allocation.
- Built **Python + SQL + SAS ETL pipelines** (5-min to monthly refresh), boosting efficiency by **40%** and reducing delivery time by **20%**.
- Automated KPI reporting using **SAS Viya + Python**, reducing manual work and enabling real-time insights.
- Automated **IFRS 9 ECL workflows** for a major APAC bank (30M+ customers), cutting manual effort by **80%** and improving compliance with **OracleDB + RBAC** integrations.

Analyst Intern/Data Engineer, Advanced Analytics **Jan 2023 - Jul 2023**
Quintics Management (Sutra Management) Ahmedabad, India | Noida, India

- Engineered **behavioral credit risk features** via **EDA, IV screening, WOE binning, and cohort analysis**, improving model accuracy by **30%**.
- Delivered a **logistic PD scorecard**, validated with **AUC**, and mapped for **production deployment (PDO/Score-at-Odds)**.
- Automated feature engineering pipelines with **Python + SQL**, ensuring reproducibility and reducing manual intervention.

Software Engineer Intern - AI/ML **Jun 2022 - Jul 2022**
Tecblic Pvt Ltd Ahmedabad, India

- Received **hands-on training** in **AI/ML, Data Science, and Cloud** through **production-level project work**.
- Completed a **capstone project** applying ML models to a **real-world use case**, demonstrating **end-to-end development and problem solving**.
- Built an **end-to-end diamond pricing model** using **XGBoost** and **feature engineering**, improving prediction accuracy by **25%** and preparing it for **production deployment**.

PROJECTS

Model Studio – End-to-End Modeling Pipeline (Apache Spark & Spring Boot)

- Designed an automated **modeling pipeline using Apache Spark**, integrating decision trees and random forests to cut data processing time by **40%**.
- Implemented **end-to-end Spring Boot backend with CI/CD workflows**, reducing issue resolution time by **30%** and improving stakeholder satisfaction.

Cloud-based Auto-scaling Face Recognition System (Flask + AWS)

- Built and deployed a **serverless face recognition system** on AWS (S3, Lambda, EC2, SQS), implementing custom auto-scaling logic to maintain **0.9s latency per request**.
- Orchestrated **containerized deployment with Docker**, enabling cost-efficient scaling and reliable performance for real-time recognition workloads.

EDUCATION

Arizona State University, Tempe, AZ, USA **Aug 2024 - May 2026**
Master's, Computer Science (GPA: 3.83/4.00)
Courses: Statistical Machine Learning, Distributed Database Systems, Software Security, Cloud Computing

Institute of Technology, Nirma University, Ahmedabad, India **Jul 2019 - Jun 2023**
Bachelor's, Computer Science and Engineering (GPA: 3.4/4.0)
Courses: Data Structures and Algorithms, Operating Systems, Computer Networks, Computer Architecture, OOP