

ROHIT SALKE

Pune, Maharashtra, India

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Education

Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology Jul 2023 – Jun 2027
B.Tech in AI & Data Science — Honours in Computational Intelligence — CGPA: 8.7/10

Work Experience

COEP Technological University May 2025 – Aug 2025
Summer Research Intern Pune, Maharashtra, India

- Conducted a comparative study of **quantum and classical machine learning models** for heart attack risk prediction using a real-world healthcare dataset.
- Implemented classical models including **SVM and KNN**, achieving significantly improved performance after applying **SMOTE** for class imbalance handling.
- Developed a **Quantum Support Vector Machine (QSVM)** using a **QFT-based feature map**, achieving **74% accuracy**, outperforming non-QFT feature maps.
- Applied **quantum clustering techniques** with QFT, achieving **67.2% accuracy** while reducing overall runtime.

YBI Foundation Jul 2024 – Aug 2024
AI and Data Skills Intern India

- Improved data quality and model readiness by performing **data preprocessing, EDA, and feature engineering** on structured datasets.
- Built and evaluated **classification, regression, and clustering models**, improving prediction accuracy through iterative tuning.
- Accelerated model development by leveraging **Python, TensorFlow, Scikit-Learn, Pandas, and SQL** for end-to-end ML pipelines.
- Enhanced model interpretability and decision-making by applying **data visualization and performance evaluation techniques**.

Projects

CareerNexus AI Career Advisor | *Python, NLP, ML* | GitHub Oct 2025 – Dec 2025

- Built an AI-driven career guidance platform analyzing skills, resumes, and job-market trends
- Achieved **95% ATS pass rate** through optimized resume analysis and recommendations

EHR Analysis & Smart Healthcare (LLM) | *Python, LLMs, OCR, Blockchain* | GitHub Jun 2025 – Oct 2025

- Developed a secure LLM-based system for EHR analysis, summarization, and health card generation
- Integrated OCR, blockchain-backed storage, and Streamlit for privacy and accessibility

Achievements & Leadership

Technical Head, Student Association of Artificial Intelligence (SAAI)

Lead Student Ambassador — Google, Letsupgrade & Microsoft Learn

AIR 1 (Silver Award), LetsUpgrade & CREATENOVA Hackathon — 1st Rank; GDG TechSprint Hackathon Finalist (2026)

GDG AI/ML, Cloud Core Member — VPKBIET

Technical & Non-Technical Skills

Programming Languages: Python, C++, HTML, CSS, JavaScript, SQL

Core Fundamentals: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems

AI / ML: Supervised & Unsupervised Learning, Deep Learning, NLP, Large Language Models (LLMs), Transformers, Feature Engineering, Model Training, Evaluation Metrics, Hyperparameter Tuning, QML

Tools & Technologies: Git, GitHub, Node.js, React.js, Next.js, REST APIs, Streamlit, Linux, VS Code, n8n

Cloud Platforms: Google Cloud Platform (GCP), Microsoft Azure (AI Services, Cloud Storage)

Databases: MySQL, MongoDB, Neo4j

Soft Skills: Problem Solving, Communication, Leadership, Teamwork, Time Management