

ROHIT SALKE

Pune, Maharashtra, India

+91 7620156611 | rohitsalke@outlook.com | linkedin.com/in/rohit-salke | github.com/rohit-7620 | leetcode.com/rohit_108

SUMMARY

Artificial Intelligence & Data Science undergraduate skilled in **Machine Learning, Gen AI, Deep Learning, Cloud Computing, NLP, and Predictive Analytics**, with hands-on experience building **LLM-powered and Agentic AI systems** using Python and SQL. Strong foundation in data pipelines, model evaluation, and full-stack deployment of ML solutions. Seeking a **Data Science or Machine Learning Engineer** role to build intelligent, data-driven systems at scale.

EDUCATION

Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology

Jul 2023 – Jun 2027

B.Tech in Artificial Intelligence & Data Science — CGPA: 8.7/10 — Honours in Computational Intelligence (CGPA: 9.1/10) Baramati, India

WORK EXPERIENCE

COEP Technological University

May 2025 – Aug 2025

Summer Research Intern – Quantum Machine Learning

Pune, Maharashtra, India

- Researched and benchmarked **quantum and classical Machine Learning models** (SVM, KNN) for heart attack prediction; applied **SMOTE** to handle class imbalance and automated data preprocessing and model evaluation pipelines in Python.
- Designed a **Quantum Support Vector Machine (QSVM)** using Quantum Fourier Transform (QFT)-based feature mapping, achieving **74% classification accuracy**; findings published in the *Taylor & Francis Quantum Machine Learning (QML) Book*.

Proximal Soilsens

Apr 2026 – Present

Agentic AI Intern

Pune, Maharashtra, India

- Design and develop **autonomous AI agents** using Large Language Models (LLMs) and multi-agent frameworks to automate agricultural data collection, soil health analysis, and insight generation.
- Build **end-to-end agentic AI pipelines** integrating live sensor data streams, **Retrieval-Augmented Generation (RAG)** knowledge retrieval, and tool-use capabilities to power real-time decision support for precision farming.

Agricultural Development Trust (AI-ADT Foundation)

Feb 2026 – May 2026

Artificial Intelligence Intern

Baramati, India

- Worked on **AI-based agriculture projects** applying **Machine Learning, Data Analysis, and predictive modeling** to identify patterns and generate intelligent, data-driven solutions.
- Gained hands-on experience in **Software Development, Database Development, and AWS Cloud Services**; collaborated with domain experts to build and validate technology-driven analytical solutions.

Technical Head – Student Association of Artificial Intelligence (SAAI)

Aug 2025 – Present

Vidya Pratishthan, Baramati

Baramati, India

- Direct AI/ML technical initiatives; lead workshops on **process automation, data pipelines, and analytical solution deployment** for engineering applications.
- Mentor students in applied **Machine Learning** and data-driven projects, strengthening departmental innovation culture and technical skill-building.

PROJECTS

CareerNexus – AI Career Advisor | Python, NLP, Machine Learning, JavaScript | GitHub

Oct 2025 – Dec 2025

- Built an AI-driven career guidance platform that analyzes resumes, skills, and job-market trends using **Natural Language Processing (NLP)** and **predictive analytics**; deployed with a **JavaScript** front end and REST API backend.
- Achieved a **95% ATS pass-rate optimization** through an intelligent resume scoring and recommendation algorithm; surfaced insights through an **interactive analytics dashboard**.

EHR Analysis & Smart Healthcare (LLM) | Python, LLMs, OCR, Blockchain, SQL | GitHub

Jun 2025 – Oct 2025

- Developed a secure **LLM-based** system for Electronic Health Record (EHR) analysis, summarization, and smart health card generation; automated key data extraction and reporting workflows using **OCR and SQL**.
- Integrated **blockchain-backed storage** and **Streamlit** for data privacy, transparency, and real-time accessibility; deployed on **Microsoft Azure Cloud**.

TECHNICAL & NON-TECHNICAL SKILLS

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

Machine Learning & AI: Machine Learning, Deep Learning, Natural Language Processing (NLP), Predictive Analytics, Supervised & Unsupervised Learning, Classification, Regression, Clustering, Anomaly Detection, Feature Engineering, Model Training, Validation & Evaluation, Hyperparameter Tuning, Large Language Models (LLMs), Agentic AI, Retrieval-Augmented Generation (RAG), Quantum Machine Learning (QML)

Data Science Libraries: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, SciPy

Risk & Financial Crime Analytics: Anti-Money Laundering (AML), Fraud Detection, Transaction Monitoring, Financial Crime Typologies, Risk Analytics, Exploratory Data Analysis (EDA), Data Preprocessing

Software Development: REST APIs, Node.js, React.js, Next.js, Git, GitHub, Agile/Scrum

Data & Visualization Tools: Power BI, Tableau, Matplotlib, Seaborn, Streamlit, Databricks, PySpark, Hive, Hadoop, Kafka

Automation & Processing: Process Automation, ETL Pipelines, OCR, n8n, Transformers

Cloud Platforms: Microsoft Azure (AI Services, Databricks, Cloud Storage), Google Cloud Platform (GCP), Amazon Web Services (AWS)

Databases: MySQL, MongoDB, Neo4j

Core Fundamentals: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Operating Systems, DBMS

Soft Skills: Problem Solving, Communication, Leadership, Teamwork, Time Management, Self-Motivation

CERTIFICATIONS

- **AWS Cloud Practitioner Essentials** – Amazon Web Services (Feb 2026)
- **Neo4j Certified Professional** – Neo4j (Jul 2025)
- **Machine Learning for Core Engineering Disciplines** – NPTEL (IIT Madras)
- **All Certifications:** LinkedIn Profile

ACHIEVEMENTS

- **Technical Head**, Student Association of Artificial Intelligence (SAAI) – Led AI/ML projects, organized technical workshops, and managed innovation-driven initiatives.
- **Lead Student Ambassador** (Google, LetsUpgrade & Microsoft Learn) – Mentored 1,000+ students, driving adoption of cloud, AI, and industry certification programs.
- **AWS Student Builder Leader 2026** – Selected to promote AWS Cloud learning, mentor students, organize technical initiatives, and foster cloud community engagement.
- **AIR 1 (Silver Award)** – LetsUpgrade Program 2025; **1st Rank** – CREATENOVA Hackathon for developing scalable AI-based solutions under competitive evaluation.
- **Finalist** – GDG TechSprint Hackathon 2026, demonstrating expertise in machine learning, problem-solving, and rapid prototyping.
- **Core Member** – GDG AI/ML & Cloud, VPKBIET; contributed to technical event execution, hands-on sessions, and developer community growth.
- **CCF Fellowship 2026** – Selected as a fellow of the Climate Collective Foundation (CCF) 2026, recognizing exceptional commitment to leveraging technology and AI for climate action and sustainable development.