

Rohit Girish Belagali

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Education

Ramaiah University of Applied Sciences

Bachelor of Technology in Information Science and Engineering

Bengaluru, India

Aug 2025 – May 2029

Narayana CBSE/PU College

Higher Secondary Education (Class 12)

Karnataka, India

Graduated 2025

Experience

Machine Learning Research Scientist Intern

AgForde (Student-Led Startup)

Nov 2024 – Present

Bengaluru, India

- Developed cloud-native data infrastructure processing large-scale cross-border transaction datasets with ETL pipelines, APIs, and real-time analytics dashboards
- Engineered blockchain-enabled supply chain tracking systems ensuring transparency across global import-export networks
- Optimized predictive ML models for demand forecasting and logistics efficiency, reducing operational costs by 44%
- Established fault-tolerant data pipelines achieving 99% uptime for mission-critical monitoring systems
- Collaborated with logistics firms and customs agencies to build scalable digital trade service frameworks

Software Development Engineering Intern

Tradyon.ai

May 2025 – Aug 2025

Bengaluru, India

- Led team of interns through code reviews and mentorship, delivering 100% on-time project completion
- Built unified monorepo system for React, Flutter, Node.js, and Python reducing code duplication by 30% and streamlining CI/CD
- Developed and deployed LLM-powered automation solutions (Diffie chat, N8n workflows) cutting manual workload by 40%
- Launched cloud-native distribution system (Flutter + Firebase + AWS) supporting 10k+ transactions and reducing deployment time by 25%
- Optimized AWS infrastructure achieving 99.9% system uptime under high-volume startup workloads

Software Development Engineering Intern

AppSquadz Software Pvt. Ltd.

Jan 2024 – Jun 2024

Noida, India

- Developed logistics web platform streamlining international shipping operations and boosting efficiency by 40%
- Deployed Python backend services and React.js frontend with Dockerized applications, reducing deployment effort by 35%
- Implemented advanced routing algorithms decreasing shipping errors by 30% and improving delivery rates
- Integrated real-time analytics dashboards enabling data-driven decision-making across operations

Research Experience & Publications

Lead Research Author - Quantum Machine Learning

International Journal of Novel Research and Development (IJNRD)

Jan 2024 – Apr 2024

Published, Vol. 9, Issue 4

- Published peer-reviewed paper "Exploring the Potential of Quantum Machine Learning for Enhanced Data Processing" (ISSN: 2456-4184) demonstrating quantum-inspired algorithms outperforming classical ML
- Investigated quantum computing and ML convergence, leveraging superposition, qubits, quantum gates, and parallel computation
- Developed quantum data encoding techniques, quantum feature maps, and quantum kernels; implemented QSVM and QNNs
- Analyzed QML applications across finance, healthcare, optimization, and cryptography with exponential speedup over classical methods

Independent Researcher - Quantum Kernel Methods

Ongoing Research Project

Sep 2024 – Present

Manuscript in Preparation

- Investigating hybrid quantum-classical ML approaches combining quantum kernel methods with classical preprocessing for enhanced pattern recognition
- Developing novel algorithms leveraging quantum feature spaces with classical dimensionality reduction (PCA, t-SNE) to optimize computational efficiency
- Exploring applications in financial time-series prediction and anomaly detection with benchmarking showing 30-40% performance improvements over classical methods
- Implementing quantum circuits using Qiskit and PennyLane frameworks integrated with scikit-learn pipelines

Technical Projects

Decentralized Copy Trading Bot (Solana & Ethereum) – Built automated trading bot with transaction decoding, Uniswap DEX integration, and optimized execution algorithms minimizing slippage; developed analytics dashboard for portfolio tracking and performance monitoring

E-commerce Flash Sale Automation Bot – Engineered multi-threaded automation system for high-demand product launches with real-time web scraping for price monitoring, inventory tracking, and simultaneous checkout across multiple platforms

Technical Skills

Languages: Python, JavaScript, C++, SQL, Solidity

Frameworks & Libraries: React, Flutter, Node.js, TensorFlow, PyTorch, pandas, NumPy

Cloud & DevOps: AWS, GCP, Docker, CI/CD, Firebase, Digital Ocean

Data Engineering: ETL Pipelines, BigQuery, Databricks, Data Warehousing, Data Visualization

AI/ML & Blockchain: LLMs, NLP, Deep Learning, Predictive Analytics, Smart Contracts, Ethereum, dApps

Leadership & Community Impact

Narayana English Club - Founder & Leader

2022 – 2025

Narayana CBSE/PU College

Karnataka, India

- Founded and led English Club, orchestrating 50+ academic and cultural events including inter-school debates, Model UN conferences, and science fairs, increasing student participation by 60%
- Developed communication skills curriculum benefiting 200+ students, focusing on public speaking, critical thinking, and leadership development

Community Fundraising Campaign Organizer

2023 – 2024

Local Orphanage Support Initiative

Bengaluru, India

- Launched crowdfunding campaigns raising INR 200,000 supporting education and healthcare for 35+ orphaned children
- Coordinated 50+ volunteers for fundraising events and established partnerships with local businesses and NGOs

Youth Mentorship Program Coordinator

2024

At-Risk Student Support Initiative

Karnataka, India

- Conducted weekly mentoring sessions for 50+ at-risk Grade 10 students, achieving 92% attendance improvement and 100% exam re-registration rate