Rohit N

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EDUCATION

Vellore Institute of Technology, Chennai — Chennai, India
Bachelors in Computer Science with spl. in AI & ML; GPA: 8.89 — **August 2023 - Present**

Shrishti Vidyashram Sr. Sec. School — Vellore, India
Till 12th grade; Percentage: 83.2 — **June 2016 - April 2023**

SKILLS SUMMARY

- **Languages:** Python, C#, C++, C, Java, SQL, Javascript, R
- **Frameworks:** Pandas, NumPy, Scikit-Learn, Matplotlib, Qiskit, Flask, python.net, .Net 4.8, LangChain, RAG
- **Tools:** Excel, PowerPoint, MySQL, Oracle SQL, GitHub, Keil
- **Platforms:** Visual Studio, VS Code, Project Libre, StarUML, Keil, Google Colab, Cursor, OCI, AWS
- **Soft Skills:** Confident Communication, Team Coordination, Decoding dodgy bugs, Translating complex tech into simple talk.

WORK EXPERIENCE

Samsung PRISM Intern | Samsung R&D Institute India - Bangalore | Remote — **July 2025 - December 2025**
Intelligent Agentic Communication App

- Building an AI-powered all-in-one communication app under Samsung PRISM, integrating calls, messaging, calendar, reminders, alarms, and routines into a single orchestrated platform.
- Focusing on context-aware task automation that executes follow-ups and scheduling without explicit user commands, reducing friction in daily workflows.
- Designing lightweight on-device AI models (10 MB, sub-500 ms latency) using TensorFlow Lite, with cloud fallback for complex tasks to ensure speed and privacy.
- Collaborating in a 5-member team with Samsung mentors, delivering architecture diagrams, UI flows, and a Proof of Concept on a strict timeline.

Product Development Intern | Medialogic Solutions Pvt. Ltd. | Chennai, TN — **June 2025 - July 2025**
SonoCare Reporting Platform | 4000+ Hospitals Served

- Built and deployed a production-grade speech-to-text system using Google STT and PythonNet to integrate with a C# application, enabling live voice-driven data entry and voice-controlled tab navigation and reducing report completion time by over 80%.
- Engineered structured field parsing and a low-latency mapping logic that auto-filled multi-tab C# WinForms forms, impacting 4000+ hospitals and streamlining daily diagnostic reporting workflows.
- Achieved 90% plus accuracy in medical speech transcription and reduced the error rate for clinical terms from 30% to just around 5% for native speakers by integrating RapidFuzz-based fuzzy matching and domain-specific parsing.
- Contributed to an Azure DevOps Git workflow, pushing tested code into production with feature branching, merge approvals, and CI integration across a live commercial product.

PROJECTS

DeepShield - Deepfake Video Detection using Vision Transformer (ViT) | GITHUB — **February 2025 - March 2025**
Deep Learning Project

- Engineered a deepfake detection system using ViT, achieving 91.03% training accuracy and 88.13% validation accuracy on the FaceForensics++ dataset.
- Extracted and processed 400+ videos, converting them into frame-level datasets for optimal transformer-based learning.
- Deployed a Flask backend and intuitive UI to allow real-time video uploads and frame-by-frame classification.
- Enhanced detection precision using color jitter, horizontal flips, and normalization techniques to improve generalization.
- Project selected among top 150 out of 2000+ teams at HackHub ’25, hosted by IEEE-CS VITC and powered by GitHub.
- Collaborated with 3 teammates to deliver the end-to-end product in a 36-hour hackathon environment.

Intelligent Quality Assurance Assistant | GITHUB | LIVE **May 2025 - September 2025**

AI-Powered Quality Engineering Tool

- Built an AI-powered Quality Assurance assistant that integrates classical quality engineering tools with real-time AI guidance to support defect analysis and process improvement, targeting MSMEs and shop-floor users.
- Implemented interactive quality tools including Pareto charts, control charts, histograms, Cp/Cpk analysis, and fishbone diagrams, enabling data-driven root cause analysis from uploaded CSV and Excel datasets.
- Developed a full-stack web application using React, TypeScript, Tailwind CSS, and FastAPI, with real-time chart generation, export capabilities (PNG, PDF), and responsive UI.
- Applied statistical analysis and visualization pipelines using Pandas, NumPy, Matplotlib, Plotly, and Seaborn to automate quality insights and actionable recommendations.
- Project presented at the IFQM Conclave for Academia 2025 and awarded 1st place by Mr. Vivek Chaand Sehgal for innovation in AI-assisted quality management.

CERTIFICATIONS & PUBLICATIONS

Oracle Cloud Infrastructure 2025 Certified Generative AI Professional | CERTIFICATE **July 2025**

- Earned OCI 2025 Generative AI Professional certification (exam 1Z0-1127-25), demonstrating expertise in large language model architecture, Retrieval-Augmented Generation (RAG), LangChain, and OCI Generative AI agent workflows.
- Acquired hands-on mastery of OCI Generative AI services including model endpoint creation, fine-tuning, and secure deployment atop Oracle's enterprise-grade infrastructure.

PATENTS

SMART REFRIGERATION SYSTEM ENABLING OCCLUSION DETECTION AND TARGETED DEFROSTING, AND METHOD THEREOF

Patent Application No: 202541096122 **Issued October 31, 2025**

- Designed a smart refrigeration system leveraging multimodal sensors and AI to detect occluded food items, generate a 3D occupancy map, and enable targeted, zone-specific defrosting only where required.
- Implemented intelligent compartment repositioning, cooling optimization, and synchronization of defrost cycles with user cooking schedules to improve energy efficiency and food preservation.