


Rohan Kailash B

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 [Rohan-Kailash](#) |  [RohanKailash](#)

EXPERIENCE

- **Ericsson India Pvt. Ltd.** 

Feb 2025 – July 2025
Bengaluru, Karnataka

AI Research Intern

 - Evaluated impact of acronym obfuscation in QA retrieval using SBERT and multiple (pretrained, fine-tuned, and PT-FT) models; observed a 10–20% drop in accuracy depending on architecture and training stage.
 - Presented “Investigating Continual Pretraining in LLMs”, demonstrating perplexity reduction and improved downstream task performance; compared encoder-decoder vs decoder-only setups.
 - Analyzed RAG vs fine-tuning trade-offs; read research papers related RAGAS which improves document retrieval precision by up to 20%.
 - Coordinated 30+ speaker sessions at Ericsson Developer Conference 2025, ensuring seamless execution.
- **ZOHO Corporation** 

Aug 2023 – Nov 2023
Chennai, Tamil Nadu

Summer Internship – Software Testing Intern

 - Developed and debugged backend components using **Java** and **MySQL**, enhancing core platform stability and query efficiency.
 - Contributed to the **alpha release** of a BI app by fixing critical bugs, verifying feature completeness, and proposing 5+ UX features inspired by **Zoho Analytics**.
 - Created 10+ diverse test datasets targeting edge cases and performance bottlenecks, improving overall test coverage and build reliability.

SKILLS

- **Languages:** Python, Java, SQL, HTML5, CSS3
- **AI/ML Frameworks:** Scikit-learn, TensorFlow, HuggingFace Transformers, SHAP, SMOTE, YOLOv8
- **Data Processing & Visualization:** Pandas, NumPy, Matplotlib, Seaborn
- **Computer Vision:** OpenCV, MediaPipe, Streamlit
- **Tools & Platforms:** Git, ROS Noetic, Arduino, Google Colab, Jupyter Notebook
- **Database:** MySQL

CERTIFICATIONS

- **Spoken Tutorial - Java**, IIT Bombay [View Certificate](#)
- **Spoken Tutorial - Python**, IIT Bombay [View Certificate](#)
- **Spoken Tutorial - MySQL**, IIT Bombay [View Certificate](#)

EDUCATION

- **Vellore Institute of Technology**

2021 - 2025

BTech in Computer Science and Engineering (Specialization in AI and Robotics)

Chennai, Tamil Nadu
- **Modern Senior Secondary School**

Graduated May 2021


Grade XII: Computer Science Percentage

Chennai, Tamil Nadu

PROJECTS

- **Drone Guard**

March 2024

Tools: Python, Streamlit, TensorFlow, OpenCV 

 - Drone Map Stitcher and Image Segmentation in a **Streamlit** app for **flood monitoring in disaster zones**
 - Developed a drone image stitching tool for generating comprehensive maps to aid **disaster response**.
 - Built a custom-trained **YOLOv8** model for **water body segmentation** and visualization.
 - Displayed **segmented water bodies** with **coordinates** for precise **flood monitoring**.
 - Designed the app to integrate into future **autonomous drone systems** for streamlined operations.

• Alzheimer's Disease Progression Prediction using MRI Biomarkers

Jan 2025 – Apr 2025

Tools: Python, Scikit-learn, SHAP, SMOTE, RFE



- Processed **5,000+ longitudinal MRI scans** from the **ADNI dataset**; engineered **delta-based biomarkers** to capture **neurodegenerative trends**.
- Tackled **severe class imbalance** (68 vs. 2,000+ samples) using **SMOTE** and **class weighting**, improving **minority class recall** by 30%.
- Trained and evaluated **Random Forest, SVM, and Logistic Regression** models, achieving up to **92.3% accuracy** in predicting **pMCI → AD progression**.
- Applied **Recursive Feature Elimination (RFE)** and **SHAP** analysis to reduce **300+ biomarkers** to **top 10 per class**, boosting **interpretability** while maintaining **>90% accuracy**.
- Validated results via **10-fold cross-validation**; demonstrated **clinical relevance** of selected features for **early intervention and stability detection**.

EXTRACURRICULAR ACTIVITIES

• VIT United Chess Team

2021 – Present

Team Member, ELO 1781

VIT Chennai

- Won a National U-1600 ELO chess tournament; represented VIT in the **Collegiate Chess League**, securing **2nd place globally**.
- Featured in VIT Chennai's **SCOPE (School of Computer Science Engineering) Achievers List** for international representation and tournament performance.

• Robotics Club

2023 – 2024

Member, AI Programming Track

VIT Chennai

- Co-organized multi-level Arduino + 3D printing workshops; collaborated across technical and marketing teams to drive 100+ student participation.
- Built and tested small-scale AI/robotics projects using **OpenCV** and **ROS Noetic** under faculty mentorship.