

Alex Rohith I

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Education

St. Joseph's Institute of Technology Bachelor of Technology in Artificial Intelligence and Data Science	Aug 2023 – May 2027 CGPA: 8.84/10
Montfort Academy Matriculation Hr. Sec. School High School (HSC)	2009 – 2023 Percentage: 75%

Experience

AI Intern , Rurah Tech Solutions Pvt. Ltd. - Developed and deployed NLP-based AI agents, reducing manual effort by 30% through automation - Built end-to-end ML pipelines including data preprocessing, model training, and evaluation - Optimized model performance and integrated solutions into scalable backend systems	June 2025 – Sept 2025
Machine Learning Intern , Twite AI Technology - Built end-to-end ML pipelines for preprocessing, training, and inference - Improved model accuracy by 15% using feature engineering and tuning - Evaluated models using Precision, Recall, F1-score, and ROC-AUC - Deployed models into efficient production workflows	Jan 2025 – Mar 2025

Projects

AlgoSLM-CPP — Domain-Specific Small Language Model for C++ - Designed and fine-tuned a GPT-style Transformer model for C++ code generation using custom tokenization - Improved code generation accuracy by 20% through dataset optimization and reasoning-aligned training - Built an inference pipeline and enabled scalable usage via API integration
Confidence-Weighted Retrieval-Augmented Generation (CWRAG) - Developed a confidence-aware RAG system with dynamic re-ranking of retrieved context - Reduced hallucination rates by 25% using threshold filtering and confidence-based prompting - Implemented an end-to-end pipeline optimized for real-time query handling
Histopathology Cancer Detection using Deep Learning - Built a CNN-based image classification model for histopathology analysis with advanced preprocessing - Achieved 99% accuracy through data augmentation and hyperparameter tuning - Evaluated performance using precision, recall, F1-score, and confusion matrix

Key Skills

- **Programming:** Python, Java, SQL
- **Machine Learning & AI:** Scikit-learn, PyTorch, TensorFlow, Natural Language Processing (NLP), Computer Vision, Generative AI
- **Deep Learning:** CNNs, Transformers, LLM Fine-tuning (LoRA, PEFT), Retrieval-Augmented Generation (RAG)
- **Data & Visualization:** Pandas, NumPy, Matplotlib
- **Backend & APIs:** FastAPI, REST API Development
- **Cloud & Deployment:** AWS (EC2, S3), Docker

Certifications

- **NVIDIA** — AI Infrastructure and Operations Fundamentals (Coursera)
- **Microsoft** — AI-900: Azure AI Fundamentals
- **Stanford University** — Supervised Machine Learning (DeepLearning.AI, Coursera)
- **IBM** — Artificial Intelligence Fundamentals (SkillsBuild)