

ANUKRISHNA A

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PROFESSIONAL SUMMARY

Enthusiastic AI/ML professional with experience in building and deploying machine learning models, NLP solutions, and data pipelines. Skilled in Python, SQL, and cloud technologies, with hands-on expertise in MLOps and model fine-tuning. With a year of experience as a Junior Software Engineer and multiple internships, including my recent AI/ML internship as part of my Master's program, where I delivered industry-aligned, impact-driven projects, I bring real-world expertise. Passionate about applying AI/ML to solve problems and create impactful solutions, I am eager to grow and contribute in this dynamic field.

TECHNICAL SKILLS AND CERTIFICATIONS

Technical Skills

- Machine Learning & AI: NLP, Computer Vision, Scikit-learn, Keras, OpenCV, PyTorch, DeepStream, MLOps
- Programming: Python
- Data Handling & Analysis: Pandas, NumPy, SQL ,
- Data Visualization: Matplotlib, Seaborn
- Cloud Technologies: Google Cloud Platform (Networking, Security, ML APIs, BigQuery)
- Data Engineering: ETL pipelines, Data Modeling, Data Quality and Reliability, Schema Design

Google Cloud Certifications:

- Prepare Data for ML APIs on Google Cloud (Earned Jul 29, 2024)
- Build a Secure Google Cloud Network (Earned Jul 29, 2024)
- Google Cloud Computing Foundations (Cloud Fundamentals, Infrastructure, Networking & Security, Data, ML, and AI) (Earned Jun – Jul 2024)

PROFESSIONAL EXPERIENCE

International Virtual Assistance , Technopark

AI/ML Intern

September 2024 – January 2025

- Developed and integrated NxtEye's AI video analytics platform, implementing a **face recognition system** for **GTRE,DRDO**.
 - Improved security by enabling **real-time monitoring, alerts for unauthorized access**, and **multi-camera support**.
 - Tools & Technologies: **DeepStream, ArcFace, RetinaFace, OpenCV, NVIDIA pipeline**.
- Built a **license plate recognition system** for mall parking automation:
 - Validated **Indian license plate formats**, reducing staffing needs and streamlining vehicle entry/exit operations.
 - Enhanced detection accuracy by 75% through fine-tuning **YOLO models** and employing OCR techniques like **EasyOCR** for recognising and done a customized mapping for Indian License Plate Format.
 - Tools & Technologies : **EasyOCR , YOLO , Python**

IBIL Solutions , Technopark

Junior Software Engineer

August 2023 – 2024

- Created a **Retrieval-Augmented Generation (RAG) chatbot** for domain-specific queries:
 - Integrated **Python, machine learning, and NLP techniques** for query answering.
 - Implemented ETL workflows to preprocess domain-specific datasets for machine learning pipelines.
 - Fine-tuned the model using **Phi 3**, leveraging **PyTorch** and **FastAPI** for text processing and deployment.
- Designed an **MLOps pipeline for object detection**:
 - Automated preprocessing and fine-tuning with **ZenML** and **MLflow** for logging and monitoring.
 - Streamlined training processes to improve model performance.
 - Tools & Technologies: **ZenML, MLFlow, MLOps**.

Cokonet Academy, Trivandrum

AI ML Intern

February 2023 – July 2023

- Employee Attrition Prediction:**
 - Built a **logistic regression model** to predict employee turnover based on various factors, achieving 75% accuracy.
 - Helped HR identify and improve retention strategies.
 - Tools & Technologies: **Python, Scikit-learn, MS Excel**.
- Human Activity Recognition:**
 - Created a model combining **CNN** and **LSTM** for identifying human activities from gyroscope and accelerometer data.
 - Achieved 85% accuracy in activity classification.
 - Tools & Technologies: **Python, TensorFlow**.

PERSONAL PROJECT

Suicide and Depression Identification Using Text Analysis

- Developed NLP models to detect signs of **suicide and depression** in text with an 80% accuracy rate.
- Fine-tuned **GPT-3.5 Turbo** for advanced text analysis, leveraging **Python, NLTK**, and **Scikit-learn**.

EDUCATION

Amrita Vishwa Vidyapeetham (Amrita AHEAD)

2023-2025

Masters in Computer Application (Specializing in Artificial Intelligence)

Sree Narayana Guru College of Advanced Studies

2018-2021

BSc Physics