

# Ankith Savio Arogya Dass

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## EDUCATION

### University of Birmingham

MSc Artificial Intelligence and Machine Learning, **Grade : 75.8%**

Birmingham, United Kingdom

Graduation Date: Sep 2024

### Nitte Meenakshi Institute of Technology

B. E, Computer Science and Engineering, **GPA : 8.56**

Bangalore, Karnataka

Graduation Date: Aug 2023

## WORK EXPERIENCE

### Cyclops MedTech

Data Analyst

Bangalore, Karnataka

Jul 2022 - Sep 2022

- Undertook analysis on Eye-Tracking Data.
- Established an one-shot algorithm for Saccadic eye velocity by utilizing efficient Machine Learning Models.
- Leveraged **Scikit-Learn** and Pandas for data handling and analysis.

## PROJECT EXPERIENCE

### Deep Learning

Indian Vehicle Number Plate Recognition

Jul 2023 - Aug 2023

- Applied **Transfer Learning** for Object Detection and Character Recognition of Vehicle Number plates.
- Trained on MobileNet for Indian License Number Dataset from Kaggle using **TensorFlow**.
- Achieved an accuracy of 85% for Object detection and 87% for Character Recognition.

### Computer Vision

Brain MRI Segmentation

Feb 2024 - Mar 2024

- Implemented 2D and 3D Segmentation algorithms for the T1 Brain MRI Scan.
- Integrated advanced image processing techniques using **Scikit-Image** and **OpenCV**.
- Successfully achieved an Jaccard Coefficient of 0.89 and a Dice coefficient of 0.93.

### NLP

Research Paper Recommendation System

Apr 2024 - Jun 2024

- Implemented an Recommendation System powered by an Embedding Language Model.
- Utilized a pre-trained BERT model for Scientific Research Papers from **HuggingFace**.
- Integrated HuggingFace Serverless API and **Pinecone** Vector Database to automate recommendations from the Arxiv.

### Computer Vision Research

GAP for Inverse Problems

Jun 2024 - Sep 2024

- Successfully applied a new method for **Inpainting**, **Colorization** and **Super-Resolution**.
- Utilized **Pytorch** and **JAX** for **Distributed Training** on 2x T4 GPUs.
- Trained the model on FFHQ Faces Dataset with over 52000 Images.

## SKILLS

**Skills:** C, C++, Python, Numpy, Pytorch, JAX, Tensorflow, Scikit-Learn, OpenCV, Pandas, Git.

## CERTIFICATIONS

### Coursera

Online

#### Deep Learning Specialization

Successfully completed the following courses and maintained an average of 95%.

- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models

#### TensorFlow: Advanced Techniques Specialization

Successfully completed the course with an average of 93%.

- Custom Models, Layers, and Loss Functions
- Custom and Distributed Training
- Advanced Computer Vision
- Generative Deep Learning

#### Mathematics for Machine Learning and Data Science

The course covered the core mathematics for Machine Learning. Achieved a score of 90%.

#### Machine Learning

The course covered the basics on Machine Learning Algorithms. Achieved a score of 83%.