Gourinath H S

9020923729 | iamgouri180@gmail.com | LinkedIn | Trivandrum, Kerala

Professional Summary

As a detail-oriented and analytical recent post graduate, I have honed my skills in developing Python-based applications and machine-learning models with a particular focus on computer vision and Natural Language Processing (NLP). I'm proficient in SQL, Python, Matlab and various machine learning and Deep learning techniques using popular Python libraries like NumPy, Pandas, Scikit-Learn, TensorFlow, and PyTorch.

Education

Kerala University of Digital Sciences, Innovation and Technology — Trivandrum, Kerala
MSc in Computer Science With Specialization in Machine Intelligence; ***CGPA: 7.24*** — *October 2021 – July 2023*

Mother Theresa College — Trivandrum, Kerala
Bachelors Of Physics; ***CGPA: 7.48*** — *August 2017 – April 2020*

Saraswaty Vidhyalaya Higher Secondary School CBSE — Trivandrum, Kerala
Bio-Maths; ***Percentage: 85.33%*** — *August 2015 – March 2017*

Work Experience

I Hub Robotics — Kochi, India
AI/ML Trainer — *March 2024 – Present*

- Trained and fine-tuned computer vision models using annotated datasets, ensuring optimal performance on specific tasks.
- Employed techniques such as transfer learning and data augmentation to improve model generalization.
- Conducted thorough evaluations and analysis, measuring metrics such as accuracy, precision, recall, and F1 score to assess model performance.

Centre of Excellence in Brain Computing, Digital University Kerala — Trivandrum, India
Research Intern — *December 2022 – April 2023*

- Created a dataset containing brain MRI's.
- Parcelated brain MRI using FSL tool and labelled ventricular regions.
- Successfully contributed to the development of a novel deep learning model with multi input model for MRI datasets.

Tata Consultancy Service — Trivandrum, India
Junior IT Manager — *June 2020 – March 2021*

- Successfully managed server-side operations for computer-based examinations on the TCS-iON project as IT manager.

Projects

Development of CirMNet Model for Detecting Neuro-degenerative Diseases using Brain MRI: Pioneered the CirMNet model, an innovative deep learning technique for early detection of brain disorders such as Alzheimer's Disease.

2-D Animal Pose Estimation: Successfully implemented a novel algorithm to extract keypoints and then estimated mammal poses from 2D images using deconvolution techniques in CNN.

Plant Leaf Disease Detection: Engineered an advanced system utilizing CNN and digital image processing techniques for precise plant disease detection using plant leaf image.

Covid-19 Tracking Web Application for Grama Panchayath: During the second wave of Covid-19 I developed a web application using frame work Django to diaplay daily covid cases, helpline numbers and other relevant information for my Grama panchayath.

Certifications

Certified Blockchain Associate: Kerala BlockChain Academy.

Awards & Achievements

Smart India Hackathon 2022 Finalist: Our team reached to the finales of the Smart India Hackathon, Software Edition, which was conducted by Ministry of Electronics's Innovation Cell and Education in collaboration with Amazon India at Jaipur.

Gold Medalist in University Badminton Tournament: My team got gold medal in Inter University Doubles Badminton Championship 2018-2019.

Skills

- Python
- NLP
- Tensorflow
- SQL
- Matlab
- Computer Vision
- Java
- Pytorch
- ML Algorithms
- Django