VARUN GURUPURANDAR

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SUMMARY

Master's student in Data Science and Information Engineering with strong programming skills in Python and hands-on experience applying advanced machine learning techniques, including convolutional neural networks, transfer learning, and object detection. Skilled in deploying ML solutions with frameworks such as PyTorch, TensorFlow, and scikit-learn. Experienced in collaborative projects with Git/GitHub and containerized ML applications. Background in IoT and edge computing, with published IEEE research papers in deep learning applications.

EDUCATION

Masters in Data Science and Information Engineering (09/2024 - present)

Linköping University, Sweden

Studying 3rd Semester , will be ready to start Master Thesis Project / Internship by February-2026

Master Coursework: Machine learning, Natural Language Processing, Statistics

Project : Analyzing and Mitigating Fairness Issues in NLP Models

- Investigated bias detection in NLP models using the Jigsaw Unintended Bias in Toxicity Classification dataset, focusing on political and gender-related biases through established fairness metrics.
- Applied data augmentation as a mitigation strategy, demonstrating measurable reduction of bias and improving model fairness and reliability in toxicity classification

Bachelors in Artificial Intelligence and Machine Learning (06/2020 – 07/2024)

Visvesvaraya Technological University (VTU), India

Project 1: IoT-Driven Temperature Data Analysis and Linear Regression for Enhanced Exploration (03/2022 - 08/2022)

- Implemented and configured IoT devices for real-time temperature data collection. Conducted exploratory data analysis (EDA) to identify patterns and trends using data processing tools such as Pandas, NumPy,
- Performed statistical modeling with sci-kit-learn for linear regression. Published an IEEE paper in an international conference.
  IEEE International Conference on Data Science and Network Security (ICDSNS-2023), India, 2023,

Project 2:Exploring the Cosmos with Machine Learning: Advancements in Astronomical Data Processing. (11/2023 -04/2024)

- Our research on astronomical object classification employs a Recursive Convolutional Neural Network (RCNN) to enhance the systematic categorization of celestial phenomena. Utilizing a dataset of 16,697 images of stars, galaxies, and other celestial objects.
- The RCNN integrates region proposals with deep convolutional networks to learn and distinguish complex patterns across object categories. Achieving an accuracy of 93.83%, our model underscores the potential of deep learning in automating classification tasks and advancing cosmic knowledge. This work was published in IEEE international conference.
  2024 Second International Conference on Data Science and Information System (ICDSIS), Hassan, India, 2024.

PROFESSIONAL EXPERIENCE

EGNYTE , India Engineering Internship (08/2023-10/2023)

- Acquired good knowledge of machine learning frameworks, including PyTorch, TensorFlow, and Keras, with a strong focus on efficient API design and development.
- Gained hands-on experience with FastAPI for building high-performance APIs and Docker for containerization, enabling scalable and deployable machine learning solutions.
- Collaborated in a team setting with Git/GitHub for version control and CI/CD pipelines.

TECHNICAL SKILLS

Programming Languages: Python , R , C, Java.
Tools: Docker, Postman, Git , GitHub, PowerBI.
Operating systems: Windows, Linux (VM).
Database: SQL , PostgreSQL
Environment: Visual Studio ,PyCharm,Android Studio,Anaconda, RStudio
Domains Interested: Machine Learning, Artificial Intelligence, Data Science, DevOps, Software engineering