Deepak Arroju

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Objective

Eager to contribute to team success through hard work, attention to detail, and excellent organizational skills. Passionate about learning new technologies and methodologies to improve personal and team productivity. Looking for a challenging role to apply my programming and problem-solving skills.

Education

Bachelor of Technology (B. Tech) in Artificial Intelligence & Machine Learning
Nalla Malla Reddy Engineering College, Hyderabad
2020 – 2024 | CGPA: 7.41

Intermediate (MPC)
Sri Chaitanya Junior College, Hyderabad
2018 – 2020 | Percentage: 93%

Secondary School Certificate (SSC)
Krishnaveni Talent School, Hyderabad
2017 – 2018 | CGPA: 8.8

Technical Skills

- **Programming Language:** Python
- **Web Technologies:** HTML, CSS
- **Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn
- **Database:** SQL
- **ML/AI Tools:** AI Concepts, Machine Learning Algorithms

Academic Project

Early Detection of Parkinson's Disease Using Machine Learning

- Designed a machine learning model to predict the onset of Parkinson's Disease using biomedical voice measurements.
- Used multiple algorithms including **K-Nearest Neighbors (KNN), XGBoost, Support Vector Machine (SVM), and Random Forest** for evaluation.

- **Random Forest** achieved the highest accuracy of **92.31%**, showing strong potential for real-world medical applications.
- Performed data preprocessing, feature selection, and hyperparameter tuning for optimal model performance.
- Highlighted the effectiveness of machine learning in early medical diagnosis and decision-making.
- The project was recognized and **published in the Indian Patent Office Journal**, showcasing its innovation.
- Demonstrated practical use of Python, Pandas, Scikit-learn, and Matplotlib for model building and visualization.

Internship

Internee – National Remote Sensing Centre (NRSC, ISRO)

Nov 2023 – April 2024 | Hyderabad, India

- Worked on enhancing **Sentinel-2A satellite images** using **Super-Resolution Generative Adversarial Networks (SRGAN)**.
- Developed and trained deep learning models to upscale **R20m (20-meter resolution)** images to **R10m (10-meter resolution)**.
- Utilized **GAN architecture**, including generator and discriminator networks, to produce high-quality, high-resolution outputs.
- Applied advanced **AI/ML and deep learning techniques** in a real-world remote sensing application.
- Improved visual quality and detail in satellite images, aiding in better geographical and environmental analysis.
- Gained hands-on experience working under a government research organization with high-end geospatial data.
- Tools used: **Python, TensorFlow/Keras, Satellite Image Processing techniques**.

Soft Skills

- Problem-Solving & Analytical Thinking
- Communication & Team Collaboration
- Adaptability & Time Management
- Eagerness to Learn & Work Ethic
- Building AI Solutions & Using Chatbots

Certifications

- **Programming with Python** – Internshala
- **Industry-Oriented Summer Internship Program (Data Science & Full Stack Web Development)** – Swecha Telangana
- **Presentation on Personal Voice Assistant** – SRM TRP Engineering College

Declaration

I hereby declare that the above-mentioned information is true to the best of my knowledge.

-Deepak Arroju