VENKATA CHARAN SAI POKURI

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Charanpokuri

CAREER OBJECTIVE

Passionate and enthusiastic individual with a keen interest in data science, machine learning, AI technologies, and software development, including web applications. Eager to contribute to a dynamic organization by applying data-driven approaches and continually advancing my skills to build intelligent solutions for real-world needs.

EDUCATION

SRKR ENGINEERING COLLEGE, Bhimavaram October 2022 - 2026
*B*achelors of Technology - Computer Science and Engineering CGPA : 9.37 (Till 3-2)
*H*onors in Data Science 2023 - 2026 (CGPA : 8.5)

INTERNSHIP

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING 05/06/2024 - 30/07/2024
National Institute of Electronics and Information Technology (NIELIT) Chennai

- Gained hands-on experience developing and evaluating machine learning and deep learning models using Python.
- Implemented supervised learning algorithms including KNN, Decision Tree, and Support Vector Machine (SVM).
- Applied unsupervised techniques like K-Means, Fuzzy C-Means, and DBSCAN for clustering, performed effective dimensionality reduction techniques with PCA algorithm, and built ANN, CNN models using backpropagation.
- Developed a **Cricket Score Prediction** model using regression, with evaluation through regression metrics.
- **Tools and Libraries**: Scikit-learn, Keras, NumPy, Pandas, Matplotlib, Seaborn, Jupyter Notebook

PROJECTS

AGRI MIND : AI-Powered Farming Support System

- Developed an AI-based system to assist farmers in detecting crop disease, predicting market price, and for supporting sustainable agricultural practices. Built machine learning models using regression and convolutional neural networks in TensorFlow/PyTorch for predicting market prices and detecting crop diseases from images.
- Implemented satellite and weather-based intelligent recommendations for irrigation, crop rotation, and ecofriendly practices using APIs and public datasets. Integrated real-time weather and soil data from relavent APIs like OpenWeatherMap, NASA EarthData, and USDA for personalized suggestions.
- **Tools and Libraries** : Python, TensorFlow, CNN, BeautifulSoup, FastAPI, Flask, Firebase, Amazon S3.

STUDENT DROPOUT PREDICTOR

- Developed a data driven machine learning model to forecast student dropouts in engineering colleges.
- Utilized the Random Forest algorithm, achieving 90% accuracy with the model, which effectively pinpointed key risk factors influencing attrition and facilitated targeted interventions to improve student retention.
- Tools and Libraries : Python, scikit-learn, Flask , BeautifulSoup, Jupyter Notebook, Visual studio Code.

TECHNICAL SKILLS

Programming Languages: Python, SQL, C/C++, OOPS, JavaScript
Libraries: NumPy, Pandas, Seaborn, Matplotlib, scikit-learn
Web Technologies & Frameworks: HTML5, CSS3, Flask
Machine Learning: Supervised and Unsupervised Algorithms
Developer Tools and Platforms: Git, Jupyter Notebook, VS Code, Tableau

SOFT SKILLS

- Problem Solving
- Adaptability
- Teamwork
- Interpersonal Skills

CERTIFICATIONS

- Programming Data Structures and Algorithms using Python **- NPTEL**
- Introduction to Data Science for engineers - **NPTEL**
- Foundation of Cloud IoT Edge ML - **NPTEL**
- Introduction to Python essentials, C++ - **CISCO**
- Data Visualization: Empowering Business with Effective Insights - **TATA**
- Introduction to Data Science - **EDX**
- Machine Learning , Data Analysis and Data Visualization with Python - **IBM**

ACHIEVEMENTS

- Top 1% scorer with 93% in NPTEL's Data Structures and Algorithms using Python course
- Scored 90% in the 'Data Science for Engineers' course offered by NPTEL and earned a certification
- Solved over 200 coding problems, showcasing strong analytical thinking and proficiency in data structures and algorithms.