Paras Saini

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Summary

Passionate Data Analyst proficient in Python, specializing in Machine Learning and Deep Learning techniques. Experienced in driving data-driven decisions through advanced modeling and insightful analysis. Dedicated to enhancing business outcomes through impactful data insights.

Education

Indian Institute of Technology, Kharagpur — West Bengal, India
Master of Technology in Agricultural Biotechnology — *Aug 2022 – May 2024*

Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut — Uttar Pradesh, India
Bachelor of Technology in Biotechnology — *Aug 2018 – May 2022*

Experience

Detection of Tumor in MRI Scanned Images of Brain — May 2023 – July 2023
Deep Learning Internship under Prof. Parlay Mitra | *CODE LINK* — *IIT Kharagpur, India*

- Trained a CNN on 3000 MRI brain images, achieving 95.00 percent accuracy with 15 epochs.
- Calculated F-measures of 0.83 and 0.95 for 10 epoch and 15 epochs, respectively.

Stress Detection in Rice by Machine Learning and Deep Learning Algorithms — August 2023 – April 2024
M.TECH Thesis under Prof. Joydeep Banerjee | *CODE LINK* — *IIT Kharagpur, India*

- Employed CNN and Random Forest algorithms to predict stress in rice crops, achieving a 20 percent higher accuracy rate than traditional observation methods and reducing time spent on manual assessments by 50 percent.
- Both CNN and Random Forest models achieved high accuracy of 86.4 percent and 89.5 percent, respectively in identifying stress in rice plants.

Projects

Predicting Passengers Transportation on Spaceship Titanic — June 2024
Machine Learning Project | *CODE LINK*

- Developed a machine learning model using Random Forest on a Kaggle dataset of approximately 8,700 passengers to predict transportation to an alternate dimension on Spaceship Titanic.
- Achieved 79.2 percent accuracy in predicting passenger transportation, analyzing features like HomePlanet, CryoSleep, age, and VIP status.

Store Sales - Time Series Forecasting — July 2024
Machine Learning Project | *CODE LINK*

- Utilized Python, Pandas, NumPy, Scikit-learn, and XGBoost to predict supermarket sales, achieving a Validation RMSE of 38.83, MAE of 21.88, and R^2 of 0.87.
- Performed data cleaning and preprocessing, feature engineering with time-based and external factors, and visualized model predictions for performance insights.

Technical Skills

Programming Languages: Python, SQL

Skills: Machine Learning, Deep Learning, Web Scraping, Power BI

Certifications

- Python 101 for data science (Credential URL) and SQL and relational databaes 101 (Credential URL) powered by IBM developer skills network.
- Data Analysis with Python certification from freeCodeCamp! (Credential URL)