PRATHAM AGARWAL

Meerut, Uttar Pradesh

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Education

Dewan Public School International(CBSE Board), Meerut
10th - 91% ***2020***
12th - 94.8% ***2022***
Bennett University, Greater Noida **2022-2026**
BTech Computer Science - CGPA 8.6(till 6th Sem)

Work Experience

Data Science Intern ***1 Jul 2024 – 1 Aug 2024***
Bennett University, Under the guidance of Prof. Mala Sarwaswat

- *Contributed to the project "Explainable AI Scene Classification and GradCam Visualization."*
- *Applied machine learning models for image classification and implemented GradCam for visual explanation.*
- *Gained expertise in handling varied image sizes, data augmentation, and normalization techniques to reduce bias.*
- *Utilized Python, TensorFlow, and OpenCV to analyze datasets and improve model performance.*

Skills

Programming Languages: *Python, SQL, C++*
Frameworks & Libraries: *TensorFlow, Keras, Scikit-Learn, Pandas, NumPy*
Tools & Technologies: *Excel, MySQL, Power BI*
Core Competencies: *Data Analytics, Machine Learning, Deep Learning, Computer Vision*
Soft Skills: *Problem Solving, Analytical Thinking, Team Collaboration, Communication*

Projects

DOCPAT ***github*** ***Oct 2023 – Feb 2024***

- *Designed and implemented a multiple disease prediction system for breast cancer, diabetes, liver diseases, heart diseases and detection of Gastrointertinal disease by images using CNN .*
- *Utilized machine learning and deep learning algorithms such as CNN, decision trees, logistic regression, SVM, KNN, and MLP.*
- *Processed and analyzed healthcare data to provide predictive insights for patients, focusing on optimizing model accuracy and promoting proactive health management.*
- *Improved expertise in machine learning, healthcare data analysis, and model evaluation.*

Sports League Popularity Prediction ***github*** ***Jan 2025 – Mar 2025***

- *Analyzed the evolution of public interest in major sports leagues over time using Google Trends data to extract real-time and historical user behavior patterns.*
- *Implemented time series forecasting models including ARIMA and SARIMA to predict future popularity trends.*
- *Enabled broadcasters, marketers, and stakeholders to make data-driven decisions based on popularity forecasting insights.*
- *Gained hands-on experience in time series analysis, model tuning, and visualization of trend forecasting results.*

Research Paper - Early Detection and Classification of Alzheimer's Disease with Grad-CAM Explainability ***github***

- *Classified Alzheimer's Disease into four stages (Non-Demented, Very Mild Demented, Mild Demented, Moderate Demented) using MRI scan data.*
- *Implemented and compared multiple models: K-Nearest Neighbors (KNN), Ensemble Model, Combined CNN Model, and CNN with Fine-Tuning (achieved 95% accuracy).*
- *Applied Grad-CAM visualization to provide explainability by identifying important MRI regions influencing predictions.*

Certifications

- *Exploratory Data Analysis for Machine Learning - IBM (Coursera)*
- *Supervised Machine Learning: Regression - IBM (Coursera)*
- *Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization - DeepLearning.AI (Coursera)*