Rudra Sharma

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Education

University of Petroleum and Energy Studies (UPES) *2022 – 2026*
B.Tech in Computer Science[AIML] *CGPA: 7.6/10*

St Anselm's School ,Mansarovar ,Jaipur *2019 – 2022*
12th CBSE BOARD *91.4%[PCM]* *10th CBSE BOARD* *75%*

Academic Projects

Estimated Delivery Date (EDD) Prediction – E-Commerce Project *Data-Analysis-Projects*
Built and deployed a machine learning model to predict exact delivery timelines for e-commerce shipments, improving logistics efficiency.

- Trained on over 500,000 shipment records (June–August 2022), leveraging domain-specific feature engineering for precise delivery time predictions.
- Achieved 91.87% accuracy within ±1 day, with MAE of 0.6435 days, RMSE of 1.1014, and R-squared of 0.5401, indicating strong model reliability.
- Used XGBoost Regressor and optimized with cross-validation; minimized prediction bias to –0.0261 days.

Polygenic Disorder & Pneumonia Detection Projects *Minor-Project*
Spearheaded two domain-specific AI projects focusing on genetic risk assessment and medical imaging, integrating predictive modeling.

- Engineered a Java-based backend system to calculate Polygenic Risk Scores (PRS), employing gradient boosting models for disease risk prediction and integrating via Spring Boot and Maven into a responsive web interface (HTML, CSS, JS).
- Engineered a CNN-based deep learning model using Python and TensorFlow to detect pneumonia from chest X-rays with high diagnostic accuracy, leveraging data augmentation and transfer learning for robustness.
- Authored and presented detailed documentation, including SRS, DFDs, and UML diagrams for both projects, ensuring clear communication of system workflows and predictive logic.

Predictive - Analysis *Predictive-Projects*
Collaborated and Engineered predictive analysis projects at UPES, leveraging deep learning models for Mental Health, Women Safety, and Crop Disease Detection.

- Engineered and implemented advanced machine learning models, including LSTM, RNN, and CNN, to develop robust and accurate predictive systems, forecasting critical societal and agricultural challenges with high precision.
- Authored and developed comprehensive project documentation, visualizing insights effectively through data-driven dashboards, and optimized predictive modeling techniques to deliver impactful and actionable solutions for real-world problems.

Work History

Volunteer *June 2023 – July 2023*
Social Internship

- Led a social internship with Nand Ghar (Vedanta Foundation), empowering 15+ individuals and improving education in 2+ villages.
- Advocated sustainable community development, enhancing education and creating impactful solutions for underprivileged communities, ensuring long-term positive change.

Awards and Achievements

- Spearheaded and led a team in a Business Game Simulation at UPES Business Fest, strategizing marketing approaches based on Product, Price, Place, and Promotion, securing 2nd place.
- Resiliently completed the "Introduction to Generative AI" course on Google Cloud Skills Boost, earning a certification badge and enhancing proficiency in AI models, generative techniques, and their strategic applications.

Technical Skills

Languages: Java, Python, C ,HTML , LaTeX

Technologies: GitHub ,Visual-Studio ,Machine Learning ,Deep Learning , OverLeaf

Analytical Tools: MySQL ,Excel ,MS-Office.

Relevant Courses

- Natural Language Processing(NLP)
- Data Science and Predictive Analytics
- Statistic and Probability for Data Science
- Optimization Techniques

Skills

Soft-Skills: Relationship building, Effective communication, Empathy Team collaboration

Interests: Badminton, Swimming, Traveling, Reading.