

Pradeep

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EDUCATION

- **Department of Computer Science , University of Delhi** New Delhi, India
Master of Science in Computer Science *Aug. 2023 – July. 2025*
- **Hansraj College , University of Delhi** New Delhi, India
Bachelor of Science in Computer Science; GPA: 8.23 *Aug. 2020 – July. 2023*

EXPERIENCE

- **Dusker Education** Remote
Data Analyst Intern *Nov 2023 – Apr 2024*
 - **Data Extraction:** Utilized web scraping and API integration techniques to extract and organize data from an online education platform into a structured database format.
 - **Database Management:** Developed and managed a MySQL database to store and organize question data, facilitating easy querying and efficient data handling.
 - **Automation:** Automated quality assessments and data processing with Python scripts, improving the efficiency and accuracy of our analysis.
 - **Reporting:** Created detailed monthly reports on answer quality and expected revenue, using SQL and Excel, to track performance and meet targets.
 - **Growth Contribution:** Contributed to a 15% increase in data processing efficiency and helped reduce data quality issues by 10%, directly supporting the company's growth in data-driven decision-making.

PROJECTS

- **Next Word Prediction (Auto-Completion):** Developed an LSTM-based model for next-word prediction to enhance text input efficiency with real-time suggestions.
 - **Model Development:** Fine-tuned the architecture with both LSTM and GRU layers, testing various configurations for optimal performance.
 - **Evaluation & Performance:** Achieved an accuracy of 69.20% with a loss of 1.3917.

Tools & Technologies: Numpy, TensorFlow, Keras, NLP, Hyperparameter Tuning, Embeddings

- **Churn Prediction:** Developed a predictive model to identify customer churn and improve retention strategies.
 - **Model Development:** Designed and implemented an ANN model to analyze customer churn patterns and predict potential churners.
 - **Feature Engineering:** Selected key features, such as customer behavior and demographic data, to improve model performance.
 - **Evaluation & Optimization:** Achieved an accuracy of 86.45% with a loss of 0.3154 on the training set, and a validation accuracy of 85.80% with a loss of 0.3479, providing actionable insights for customer retention.

Tools & Technologies: Pandas, NumPy, TensorFlow, Keras, Scikit-learn

- **Basketball Shot Prediction:** Predicted NBA shot success using models like Logistic Regression, Neural Networks, and XGBoost.
 - **Model Evaluation:** Performed data preprocessing, model evaluation, and feature importance analysis. Achieved maximum accuracy of 62% with XGBoost, Neural Networks (Dropout Regularization), and Gradient Boosting (PyCaret).
 - **Computational Efficiency:** XGBoost provided efficient processing (0.652 seconds), while Logistic Regression achieved comparable accuracy (60%) with the fastest processing time of 0.363 seconds.

Tools & Technologies: Logistic Regression, Neural Networks, Random Forest, XGBoost, PyCaret, Python

CERTIFICATIONS

- **Machine Learning Specialization:** By Andrew Ng from Coursera
- **Python for Data Science:** From LearnX

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- **National Science Olympiad:** Received Gold Medal (Zonal rank: 1)
- **Volunteer - Sankalan Tech Fest:** Assisted in planning and executing various tech events, including workshops, hackathons, and keynote sessions. Facilitated communication between teams and addressed issues promptly to maintain event schedule.

PROGRAMMING SKILLS

- **Languages:** Python, SQL, Java
- **Frameworks and Libraries:** PyCaret, Pandas, Scikit-learn, Keras
- **Operating Systems:** Windows, Linux
- **Developer Tools:** Git, VS Code