

PRERNA PANDEY

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SUMMARY

Highly motivated and skilled in data analysis, machine learning and data-driven decision-making, with hands-on experience in developing NLP models, predictive analytics and deep learning solutions. Passionate about leveraging technology to solve real-world problems, optimize processes and drive innovation through analytical and problem solving expertise.

EXPERIENCE

Machine Learning Intern(Genz Educatewing)

June 2024-July 2024

-Developed a BERT-based sentiment analysis model for classifying text data, optimizing performance using NLP techniques and evaluation metrics.

-Built a fake news detection model using Naive Bayes and NLP techniques, implementing feature selection, model training and performance evaluation.

PROJECTS

Student Performance Prediction

Developed a student performance prediction model using ML techniques, achieving 88% accuracy with Linear Regression, XGBoost, and Random Forest.Built and deployed a Flask API on Microsoft Azure for real-time predictions, ensuring scalability and seamless accessibility.

Movie Recommendation System

Developed a movie recommendation system using the IMDB dataset and cosine similarity for personalized content-based filtering. Preprocessed and analyzed movie metadata to enhance recommendation accuracy and improve user experience.

Plant Disease Prediction

Developed a CNN-based Plant Disease Prediction model to classify plant diseases using image processing, optimizing accuracy for early detection and prevention.Implemented early stopping and data preprocessing techniques to enhance model performance and prevent overfitting.

SKILLS

Programming Languages: Python, SQL.

Data Science & AI Concepts: Machine Learning, Deep Learning, Predictive Modeling, CNN, BERT, Model Evaluation, Data Science,Exploratory Data Analysis, Artificial Intelligence.

Libraries & Frameworks: Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn.

Data Handling & Visualization:EDA, Feature Engineering,Power BI, Data Visualization, Dashboards.

Tools & Platforms: Microsoft Azure,Git, Jupyter Notebook,Visual Studio Code.

Soft Skills: Problem-Solving, Analytical Thinking, Team Collaboration, Communication.

EDUCATION

Masters of Computer Applications(Artificial Intelligence & Machine Learning)-Chandigarh University	2025
Bachelors of Science-Panjab University,Chandigarh	2023

CERTIFICATES

Data Visualization and Dashboards with Excel and Cognos -Coursera
Python3 Programming-Coursera