Amreeta Surana

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PROFESSIONAL SUMMARY

Computer Science B.S. | Specialization in Artificial Intelligence & Machine Learning
Motivated and detail-oriented graduated with a solid foundation in AI, Machine Learning, Deep Learning, and Data Science. Proficient in Python, with practical experience in developing data-driven solutions through academic and personal projects. Skilled in designing and implementing machine learning models from the ground up, demonstrating a strong ability to tackle complex challenges with innovative approaches. Eager to apply technical skills and enthusiasm for AI to contribute effectively in an entry-level role.

EDUCATION

VIT Bhopal University
BTech – CSE (Artificial Intelligence and Machine Learning) **10/2022 – 05/2026**
- Cumulative GPA: 8.75

12th Standard Advanced Academy, Indore M.P. **04/2021 – 06/2022**
- CBSE Percentage: 89.9%

10th Standard Advanced Academy, Indore M.P. **03/2020**
- CBSE percentage: 95.00%

PROJECT

Plant Leave Disease Detection Model with Deep Learning (08/2023 – 12/2023)
- Built an advanced deep learning model using instance segmentation (Mask R-CNN) to automatically detect and localize disease regions on plant leaves from images.
- Compiled a robust dataset of healthy and diseased leaf images for effective model training and validation.
- Created a user-friendly pipeline for image-based disease diagnosis to support farmers and researchers in plant health management.

SpaceX First Stage Landing Prediction (06/2025 – 07/2025)
- Developed end-to-end data science pipeline to predict SpaceX Falcon 9 first stage landing success, leveraging real-world data from APIs and web scraping (Wikipedia, SpaceX API).
- Applied EDA using Pandas, NumPy, SQL, and extensive visualizations with Matplotlib, Seaborn, Folium, and Dash for interactive insights into launch outcomes.
- Engineered predictive models, with Decision Tree achieving the highest accuracy (best GridSearchCV score: 0.89), to identify key factors impacting landing success.
- Demonstrated proficiency in data collection, wrangling, feature engineering, interactive dashboards, and model evaluation to solve a real business problem in the aerospace domain.

Historical Automobile Sales Analysis and Dashboard (07/2025)
- Developed an interactive dashboard with Python, Dash, Pandas, and Plotly Express to analyze historical automobile sales data.
- Visualized sales trends, recession effects, advertising spend, and economic factors using custom charts.
- Implemented dynamic filtering and responsive UI for analysis by year, vehicle type, and economic period.
- Provided data-driven insights to support business and academic decisions in the automotive sector.

SKILLS AND CERTIFICATES

Skills: Python, C++, SQL, Numpy, Pandas, Matplolib, Seaborn, Keras, Tesorflow, Machine Learning, Deep Learning, Data Science, Microsoft Office, Communication, Time management, Teamwork, Punctuality, Organisational.

Certifications:
- Online Course, Applied Machine Learning in Python – 12/2023
- Online Course, Professional Data Science Course by IBM – 07/2025
- Professional Course, Data Science with Python – 06/2024 to 07/2024

EXTRA CURRICULAR

Fusion Club (Event Management Lead, VIT Bhopal) **11/2022 - 01/2024**
- As the event management lead for Fusion Club, I organized successful events, sharpening my leadership and teamwork skills while deepening my appreciation for the arts' transformative power.

Linux Club (Core Member, VIT Bhopal) **02/2024 – 05/2025**
- As a core member of Linux Club, I got an opportunity to explore a really new field and under the guidance of my leads we conducted several successful events, both technical as well as non – technical.