SONAM DOBRIYAL

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EDUCATION

KIET Group of Institutions (2024 - Present)
Master in Computer Applications

University of Delhi (2021 - 2024)
Bachelor of Science
Cumulative GPA: 8.439/10

TECHNICAL SKILLS

Programming Languages : Python, C, SQL
Machine Learning : Supervised Learning (regression and classification algorithms, linear regression, decision trees, random forests, SVM), Unsupervised Learning (K-means, PCA) and Deep Learning (TensorFlow and PyTorch), Inference Analysis, Predictive Analysis, Forecasting, Jupyter Notebook
Data Manipulation and Analysis : Data Wrangling, Exploratory Data Analysis (EDA)
Data Visualization : Matplotlib, Seaborn, PowerBI
Cloud Services : Microsoft Azure, Google Cloud Platform

UNIVERSITY PROJECTS

Medware(Smart Medication System) (Oct 2024 - Dec 2024)
Tools and Technologies: HTML, CSS, JavaScript, Bootstrap, Flask, Google Cloud Services

- Smart medication system, to improve user medication adherence, provides features to set reminders and get notification along with medication recommendation system based on severity of medicines.
- Integrated with chatbot to help users find solutions to their problems.

Object Detector (Sept 2024 - Oct 2024)
Tools and Technologies: TensorFlow, OpenCV, Python

- Developed an object detection system that identifies specific objects in images and videos using deep learning techniques.
- Achieved an object detection accuracy of 87% in real-time video streams.

Housing Price Prediction Project (Apr 2024 - May 2024)
Tools and Technologies: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Jupyter Notebook

- Developed a Machine learning model to predict Housing Price based on certain features, collaborated with Pinaki IT Consultant Pvt Ltd(UK based)
- Conducted thorough exploratory data analysis (EDA) to identify trends, correlations, and outliers, utilizing visualizations in Matplotlib and Seaborn.
- Developed and evaluated multiple regression models (Linear Regression, Decision Trees, Random Forest) to determine the most accurate approach for price prediction. Achieved model accuracy of 92%.

Insurance Claim Analysis (March 2024)
Tools and Technologies: Python, Pandas, NumPy, Scikit-learn, PowerBI

- Conducted an in-depth analysis of insurance claims data to identify trends, risk factors and improve claim processing efficiency.
- Improved claim processing efficiency by 35% and enhanced fraud detection capabilities.
- Compiled findings into detailed reports and dashboards, presenting actionable insights to stakeholders to inform decision-making and policy adjustments.

WORK EXPERIENCE

(May - June 2024)
Tata Data Visualisation Simulation: Tata Consultancy Services (Forage)

- Conducted in-depth analysis of large datasets to identify trends and patterns.
- Designed Power BI dashboards for actionable insights, improving decision-making efficiency.

LEADERSHIP EXPERIENCE

President of Vigyanmanthan, Maharaja Agrasen College (Sept 2023 - May 2024)

- Spearheaded event planning, achieving 70% increased participation
- Led cross-functional teams, ensuring effective collaboration and communication.

Member of Internal Complaint Committee, Maharaja Agrasen College (Nov 2022 - May 2024)

- Senior student representative of the statutory body of Maharaja Agrasen College, University of Delhi.
- Collaborated with East Delhi Legal Service Authority to organize various events to promote gender sensitization and conducted safety audits for students in college.

PR Head of Vigyanmanthan, Maharaja Agrasen College (May 2022 - Apr 2023)

- Established and maintained relationships with media outlets, stakeholders, and community organizations.
- Increased participation by 55% through organizing events and workshops promoting scientific literacy and innovation.

CERTIFICATIONS

Machine Learning certification by Maharaja Agrasen College in association with Pinaki IT Consultant Pvt Ltd (May 2024)
Linux: Advanced Insights and Practical Applications Certification from LinkedinLearning (Dec 2024)

ADDITIONAL

Relevant Coursework: Problem Solving using C and Python , DBMS, Data Structures, Computer System Architecture, Software Engineering, Mathematical Foundation of Data Science, Mathematics

Core Competencies: Effective Communication, Time management and Collaboration, Critical Thinking, Adaptability, Leadership
Languages: English, Hindi
Awards:

- Won national E-Raksha Competition (2021), showcasing expertise in cyber security awareness and innovation, jointly organized by NCERT and Cyber Peace Foundation in association with NCB, NCPCR and UNICEF India.
- Secured 2nd place in Techspire competition on emerging technologies, showcasing innovative presentation skills organized by Tech society of Maharaja Agrasen College.
- Winner of Best Out of Waste Competition, organized by Srijan (Art and Craft Society) of Maharaja Agrasen College.