SHUBHAM AGGARWAL

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Personal Summary

Enthusiastic MSc Data Science student with a strong foundation in statistical analysis, machine learning, and data visualization. Experienced in using machine learning models to identify business problems and maximize profits by deriving actionable insights from data. Skilled in Python, Excel, and SQL to process and analyse complex datasets, and passionate about applying data-driven solutions to improve business outcomes. Seeking to leverage my expertise in machine learning and data analytics in a data-driven role to solve real-world challenges.

Education

- **MSc in Data Science | Heriot Watt University | Sep 2023 - Present**

  Key Coursework: Data Mining & Machine Learning, Data Visualization, Statistical Modelling, Data Structures and Algorithms, Big data technologies, biologically inspired computation, software engineering foundations.

  Thesis: "A Machine Learning Approach for Detection of Fraudulent Transactions in Financial Services "

- **B.Tech in Computer Science | Amity University | Sep 2019 – July 2023**

  Key Coursework: Introduction to programming in Python, Object oriented programming using C++, Statistical Modelling, Data Structures and Algorithms, Applied Mathematics, Theory of Computation, Artificial Intelligence. Data Mining and Business Intelligence, Deep Learning, Sociology for Engineers.

  Thesis: " Improving Stroke Prediction Accuracy Using Machine Learning Techniques"

Internships

Data Science Intern | Panorama Software Solutions Pvt Ltd | Apr 2022 - June 2023

- Assisted in analysing large datasets to extract meaningful insights using Python and SQL.

- Developed predictive models to improve customer churn prediction, achieving a 15% increase in accuracy.

- Performed data cleaning and preprocessing using Pandas and NumPy to ensure data quality.

- Visualized KPIs using Tableau and Python for business stakeholders.

Personal Projects and Certifications

- **User Behaviour Prediction Using Machine Learning:** Implemented advanced user behaviour prediction using machine learning algorithms, feature engineering, Python and Scikit-learn for actionable insights.
- **Diabetes Patient Readmission Prediction:** Diabetes patient readmission prediction using machine learning, feature engineering, data preprocessing, model evaluation, Python, Scikit-learn, and Random Forest.
- **Loan Eligibility Prediction:** Loan eligibility prediction using Gradient Boosting, Logistic Regression, Decision Tree, feature selection, data preprocessing, and model evaluation in Python.
- **The Joy of computing using Python:** By NPTEL (IIT MADRAS ONLINE CERTIFICATIONS) **(15.19/25)**
- **Deep Learning Certification:** By NPTEL (IIT MADRAS ONLINE CERTIFICATIONS) **(13.35/25)**
- **Complete Python Bootcamp:** By Dr Angela YU, Udemy

Technical Skills

- Programming Languages: Python, SQL

- Data Analysis: Pandas, NumPy, SciPy

- Machine Learning: Scikit-learn, TensorFlow

- Data Visualization: Matplotlib, Seaborn, Tableau, Power BI

- Tools: Jupyter Notebooks, Git

- Databases: MySQL