Raunak Srivastava

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Skills

- **Programming Languages: Python, R, SQL, Java, SAS, MATLAB, C, Bash (Unix Shell)**
- **Tools/Packages: Pandas, NumPy, Hadoop, Spark, Scikit-learn, SciPy, Matplotlib, Plotly, Dash, Seaborn, Plotnine, Tableau, Excel, Git**
- **Technical Skills: Machine Learning, Artificial Intelligence, ETL, Data Visualization, Predictive Analytics, Feature Engineering, Model Evaluation and Validation, Agile Methodologies**

Education

UNIVERSITY OF CALIFORNIA, IRVINE

- **Master of Data Science (Sep 2023 – Dec 2024)**

PURDUE UNIVERSITY | WEST LAFAYETTE, IN | 2019-2023

- **B.S. in Data Science, Minor in Computer Science**
- **Certificate in Entrepreneurship and Innovation**
- Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Data Mining and Machine Learning, Artificial Intelligence, Large Scale Data Analytics, Computer Architecture, Numerical Methods, Statistics for Data Science, Linear Algebra, Probability, Statistical Programming

Experience

- **Data Science Intern at The National Institutes of Health** (May 2021 – May 2023)
  - **Dashboard Design and Implementation –** Developed 10+ interactive dashboards to provide real-time insights into key metrics ensuring user-centric interfaces using Plotly Dash and Python.
  - **NOAA Weather –** Extracted and preprocessed weather forecast data from the NOAA website to predict future campus load using the weather.gov API, PI System Explorer, and Python. Calculated and visualized error metrics (mean, standard deviation, MAD, and RMSE) of weather data using Plotly and prepared total performance overview dashboards to be integrated into internal NIH forecaster quality web app.
  - **Performance Testing CUP Models –** Testing, automation, statistical analysis, and visualization of the NIH Central Utility Plant (CUP) machine learning models using MATLAB, PI System Explorer, and Excel.
- **AI and Data Science Summer Analyst at JPMorgan Chase & Co.** (Jun 2022 – Aug 2022)
  - **Statistical Testing Automation –** Utilized Python and SQL to automate process of selecting stratified samples, performing McNemar Testing, summarizing, and visualizing results for HMDA Geocode Sourcing.
- **Data Science Intern at Onpoint Insights** (Jun 2020 – Aug 2020)
  - **Credit Card Fraud Detection –** Implemented and compared performance of 3 machine learning algorithms in Python (Random Forest, Neural Networks, and LightGBM) to identify and prevent credit card fraud transactions and documented work in a case study.
  - **E-Commerce Sentiment Analysis –** Performed sentiment analysis on e-commerce dataset to deliver required product insights for client company. Used Multinomial Naïve Bayes Classifier to build model in Python and created dashboard in Tableau to display insights.
- **Undergraduate Research at The Data Mine – Purdue University**
  - Teaching Assistant with corporate partner IU Health
  - Data visualizations for business development & post-COVID stadium seating plans with Purdue Athletics

Awards

- Corporate Partners Program Scholarship
- Dean's List and Semester Honors
- Student Ambassador, Spring 2021 Online Cohort Ambassador Program
- Point Guard of Purdue Men's Club Basketball Team