Akshat Mittal

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EDUCATION

University of California San Diego   La Jolla, CA
B.S. in Math and Computer Science, Minor in Supply Chain Management   *Sep. 2019 – Dec. 2023*
Multiple Provost Honors Awarded for Quarterly Academic Performance

Relevant Coursework: Computer Organization and Systems Programming, Advanced Data Structures, Data Science in Practice, Statistical Methods, Design and Analysis of Algorithms, Programming Language Principles, Intro to Numerical Analysis, Supervised Machine Learning, Software Engineering

EXPERIENCE

SDE Intern   June 2022 – Sept. 2022
Amazon   *New York, NY*
* Created a diagnostic tool for team Firebird which handles Sponsored Product placements on the detail page
* Produced a client that collected request/response data for a page load and uploaded those calls as JSONs to S3
* Built an app on Harmony to pull these calls from this bucket and merged them into an audit with a simplified UI
* Generated a button on Amazon.com using Tampermonkey which takes the user to the audit on Harmony

Research Intern   July 2021 – Sept. 2021
AJMS Global Consulting   *Dubai, UAE*
* Led the research team in creating a report that investigates the efficacy of Islamic Finance in the modern era
* Conducted data analysis of various aspects of Islamic banks such as capital adequacy and earning strength
* Discovered that asset quality under Islamic Finance tends to improve through regression and graphical analysis

Supplemental Instruction Leader   Sept. 2021 – Present
UC San Diego   *La Jolla, CA*
* Led discussion sessions with a graduate student TA for Math 20B and Math 20C under multiple professors
* Assisted in creating worksheets and helping students solve them during weekly sessions
* Received 95 percent positive feedback from students

VP of Tech Operations   Sept 2020 – June 2021
Undergrad. Econ. Society at UCSD   *La Jolla, CA*
* Created a custom, biweekly economics oriented programming course which is imparted to UES members
* Engaged 90 percent of members by dealing in python and the pandas module
* Increased applications submitted by 50 percent over previous cycle by designing and engaging in recruiting

PROJECTS

Social Compass | *Java, Android Studio*   January 2023 – March 2023
* Developed an Android app for real-time friend location tracking using custom alphanumeric codes
* Implemented location services to synchronize user coordinates with a SQL server
* Designed a user-friendly UI with map navigation, dynamic friend icons, and location update timestamps

Predicting Price of Used Cars using Supervised Learning | *Python*   January 2023 – March 2023
* Developed a machine learning algorithm to determine fair market value of used cars using a dataset with various specifications
* Applied multiple regression models and evaluated performance with metrics such as mean squared error and r-squared score
* Identified RandomForest and Bagging Regressors as the best models with r-squared scores of 0.9286 and 0.9310 respectively

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks: React, Node.js, JUnit, WordPress
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ
Libraries: pandas, NumPy, Matplotlib
AWS: S3, Lambda, IAM, Dynamo DB