RAHUL AVINASH JADHAV

BOSTON, MA, US jadhav.ra@northeastern.edu +18573707560 LinkedIn Portfolio | Github

EXPERIENCE

Teaching Assistant

NORTHEASTERN UNIVERSITY **JANUARY 2022 - PRESENT, US, MASSACHUSETTS, BOSTON**

• Utilized Canvas assignment data to create data-driven reports to evaluate student performance and to provide insights to professors.
• Developed recommendations to improve study habits, resulting in an average of 8 hours per week of self-driven study time, a 4-fold increase in participation in online discussions, and a 68% increase in class attendance.
• Provided academic support and tutorials in both one-to-one and in-class sessions to encourage student engagement and participation. These efforts led to a 20% increase in the class average.
• Tracked student progress by analyzing grade records and identified areas for improvement, leveraging Tableau to create dashboard templates for future analysis.

Software Developer Intern

AXXESS TECHNOLOGY SOLUTIONS **SEPTEMBER 2022 - DECEMBER 2022, US, TEXAS, DALLAS**

• Improved uptime of web applications by maintaining and enhancing web applications using customized and packaged solutions with a focus on ensuring seamless integration, resulting in 99.99% uptime.
• Reduced the number of defects by 40% through thorough testing, positive engagement with users, and the delivery of new features and change requests.
• Applied object-oriented programming (OOP) principles, leveraging encapsulation, inheritance, and polymorphism to create efficient and maintainable code in C#.
• Reduced code complexity by 75% using functional programming, resulting in robust and maintainable code.
• Reviewed the code of up to 2 software developers a week, improving the quality of their code by 30% and increasing their code reusability by 40% through coaching.
• Debugged and resolved issues in existing software, which reduced errors by 20% and improved software performance by 10%.
• Utilized GitHub for version control and Jira stash for continuous integration on an agile team.
• Managed multiple tasks and priorities effectively, meeting project deadlines, Also utilized strong analytical skills to identify and solve complex problems.
• Demonstrated strong problem-solving and analytical skills, effectively identifying, and resolving complex issues, and implementing optimized solutions using C# programming.

Co-founder

SIMPLYSTART.IN **JANUARY 2019 - SEPTEMBER 2021, IN, MAHARASHTRA, MUMBAI**

• Founded and led a development and creative digital agency, providing digital solutions in web design and development, SEO, marketing, and graphic design to over 50 clients, increasing revenue by 2X in 2 years, while working in an Agile framework.
• Developed 5 websites and 2 mobile applications for 2 different clients in 2 months, increasing the amount of traffic to the client's websites by 80% and the number of mobile application installations by 70%.
• Developed backend RESTful services using Spring Boot, unit testing with JUnit, Mockito, and Power Mockito, and achieved code coverage of 98%.
• Created staging environments and executed website migrations for more than 15 websites.
• Reduced the average time required to process a user's application from 1 hour to under 10 minutes by designing Hibernate ORM mappings with JPA annotations to map Java classes to database tables.
• Used design patterns like Model View Controller (MVC) and Singleton to create loosely coupled applications, increasing maintainability by 50% and increasing testability by 40%.

ACADEMIC PROJECTS

TELECOMMUNICATION CHURN PREDICTION | PYTHON | DECISION TREES & RANDOM FORESTS

- Designed and implemented end-to-end testing strategies for data pipelines using tools like Apache Airflow, ensuring the accuracy and completeness of data for machine learning models. Collaborated with cross-functional teams, including data engineers, data scientists, and product owners, to understand data requirements and validate data sources, transformations, and outputs.
- Conducted quality assurance testing on datasets, performing in-depth analysis of demographic and operational data to generate hypotheses and insights. Built machine learning classification models, including Logistic Regression, Decision Tree Classification, Random Forest Classification, and XgBoost Classification, to predict customer churn and provide recommendations for retaining customers.
- Evaluated model performance and selected the best-performing model based on evaluation metrics, ensuring optimal results for the company.
- Documented test plans, test cases, and test results, effectively communicating them to relevant stakeholders for alignment and visibility.

PREDICTIVE ANALYSIS ON AMES HOUSING | R PROGRAMMING

- Utilized data cleaning techniques, exploratory data analysis, and correlation plots to gain a comprehensive understanding of dataset variables, ensuring accurate modeling.
- Created dummy variables and conducted multicollinearity tests to ensure the reliability and validity of the developed linear and logistic regression models. Thoroughly evaluated model results, ensuring accuracy and reliability in predicting housing prices.
- Performed ETL on the COVID-19 virus dataset, conducting correlation analysis and building regression models to understand patterns of virus behavior based on demographic variables such as gender, ethnicity, and race.
- Identified that the number of positive cases is higher in females, but the death rate is higher in males, suggesting potential gender-based differences in immunity against COVID-19. Utilized SQL for data exploration and analysis, uncovering insights and trends in the dataset.
- Conducted comprehensive analysis and effectively communicated findings to inform further research and decision-making.

INDEPENDENT PROJECTS

SYNCPIC **APRIL 2019 - APRIL 2019, IN, MAHARASHTRA, MUMBAI**

- Developed a Python application to reduce data redundancy and save up storage space.
- Applied Computer vision to compare data. The program is 95% faster than a person.
- Designed an algorithm to organize data in a "Year/month" folder structure. the application also uses metadata to find the date of when the data was captured. The time complexity of the application is 0(n).

EDUCATION

NORTHEASTERN UNIVERSITY **EXPECTED JULY 2023, US, MASSACHUSETTS, BOSTON**
MASTER OF PROFESSIONAL STUDIES IN ANALYTICS

UNIVERSITY OF MUMBAI. **JUNE 2018, IN, MAHARASHTRA, MUMBAI**
BACHELOR OF ENGINEERING IN INFORMATION TECHNOLOGY