SAQUIB NASEEM

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▶ YouTube: Techflix

Personal Statement

A highly motivated MSc Data Science student with a strong background in software development and programming. Proven track record in designing and implementing scalable software solutions, with expertise in Java, Python, and SQL. Active open-source contributor and educational content creator, dedicated to sharing knowledge and continuously improving technical skills. Seeking to leverage my combined expertise in software engineering and data science to drive innovation and contribute to impactful projects.

Education

MSc Data Science   *Sept 2023 – Sept 2025 (Expected)*

University of Surrey, UK

- Key modules: Data Science Principles and Practices, Business Analytics, DBMS, Cloud Computing, NLP, Machine Learning, Advanced Web Technologies

- Dissertation: [Low-cost 2D DIC Focused on Image processing pipeline]

Bachelor of Technology in Computer Science   *July 2019 – May 2022*

Jamia Hamdard University, India

- First Class Honours (Distinction)

- Key modules: Data Structures and Algorithms, Java, Python, Software Engineering, RDBMS, Operating Systems, OOP

Professional Experience

Associate Programmer   *July 2022 – Aug 2023*

NSMX Services Pvt Ltd, India

- Developed and maintained custom survey scripts using Python, JavaScript, and SQL, increasing survey response rates by 30%.
- Enhanced survey interface and logic flow using JavaScript, reducing respondent drop-off rates by 45%.
- Implemented data validation checks and complex logic in Python, improving data accuracy by 60%.
- Managed multiple survey projects concurrently, advising clients on optimal survey layouts.
- Conducted data analysis to improve survey designs, increasing data reliability by 10%.

Software Engineer Intern   *Jan 2021 – Mar 2021*

Jan Elaaj Healthcare, India

- Redesigned mobile and web application UI using React and Spring, increasing user engagement by 25%.
- Integrated Paytm's payment gateway in webapp and android using Java and RESTful APIs for seamless transactions.
- Managed code repositories with Git and GitHub, improving continuous integration practices.
- Optimised existing codebase, reducing app crashes by 40%.
- Contributed to the integration of real-time video conferencing features.

Key Projects

NER Tags Prediction: Advanced NLP Model   ⊙ GitHub: NER-Tags-Prediction

- Engineered a sophisticated Named Entity Recognition (NER) model using **Python**, **Flask**, and cutting-edge NLP techniques, deploying it on **Google Cloud Platform** for real-time predictions via API, demonstrating proficiency in end-to-end ML model development and cloud integration.

- Conducted comprehensive comparative analysis of various advanced models including fine-tuned FFNN with Word2Vec and GloVe, BERT and RoBERTa from Hugging Face Transformers, and custom BiLSTM and SVM implementations, showcasing deep understanding of state-of-the-art NLP architectures.
- Implemented robust CI/CD pipeline using **GitHub Actions**, ensuring seamless integration and deployment, while leveraging **Git** for efficient version control and collaborative development, resulting in a 40% increase in team productivity and code quality.

SurreyBook: Full-Stack Social Networking Platform   :octocat: GitHub: SurreyBook

- Architected and developed a comprehensive full-stack application using **Java**, **Spring Boot**, **HTML**, **CSS**, **JavaScript**, and **Docker**, implementing interactive front-end components leveraging Angular and robust back-end services for efficient data management.
- Leveraged **Docker** for containerization and seamless deployment, integrated **MySQL** for database management and **Thymeleaf** for server-side templating, ensuring a scalable and maintainable architecture.
- Collaborated effectively within a team environment, utilizing **Git** for version control and implementing rigorous testing and code review processes to maintain high code quality and development standards.

Customer Churn Prediction   :octocat: GitHub: Customer Churn Prediction

- Developed a predictive model using **Python**, implementing **Logistic Regression**, **Random Forest**, and **Gradient Boosting** algorithms.
- Processed and cleaned large datasets, and visualized key insights with **data visualization** techniques.
- Collaborated on documentation and code maintenance using **Git** for version control.

Technical Skills

Programming Languages: Python, Java, C/C++, JavaScript, PHP
Web & Mobile Technologies: React, Angular, Node.js, HTML/CSS, Flask,jQuery, Android Development
Databases: MySQL, MongoDB, Firebase
Cloud Platforms: AWS, GCP, Heroku
Tools & Frameworks: Git, Spring Boot, Flutter, Selenium, TensorFlow
Data Analysis: Pandas, NumPy, Scikit-learn, Jupyter Notebook, Tableau

Additional Information

Certifications:

- Data Science and Business Analytics (The Spark Foundation)
- Java and Spring Microservices (Udemy)
- Data Scientist with R (Datacamp)
- Amazon S3 (Coursera)

Achievements & Contributions:

- Active open-source contributor on GitHub (GWOC'21 certification from The GirlScript Foundation)
- Led creation of university placement magazine, increasing student engagement by 40%
- YouTube educator: Provide programming tutorials and solutions Channel: Techflix