Rutujeet Bhagvant Falmare

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EDUCATION

- The University of Texas at Arlington, Texas
  Masters of Science in Computer Science (Pursuing)   - 3.6/4   Aug 2023 - May 2025
- University of Mumbai, India
  Bachelors of Science in Computer Engineering   - 3.65/4   Aug 2019 - May 2023

TECHNICAL SKILLS

- Programming Proficiency- C++, Java, Python, JavaScript, SQL
- Frameworks/Libraries - ReactJS, NodeJS, BootStrap, NumPy, Scikit, Pandas, TensorFlow, Flask, NLP
- Development Technologies - HTML, CSS, MySQL, MongoDB, Twitter API, Spring, SpringBoot
- Software & Tools - Git, GitHub, Android Studio, Unity Hub, Apache Tomcat, SQL Server, Postman, AWS IAM, AWS EC2, AWS S3
- Technological Expertise - Data Structures, Software Engineering, Databases, Cloud Computing, Distributed Systems, Agile

WORK EXPERIENCE

- **WEB DEVELOPER**
- **CHILWERI IMPEX - (Mumbai, India)**   July 2021 - Dec 2021 (6 Months)
  - ➤ Improved website load time by 20% and increased user engagement by 15% through enhanced functionality and UI improvements.
  - ➤ Designed digital marketing strategies leading to over 13% business growth, fine-tuned online visibility through targeted marketing efforts using SEO techniques.

PROJECTS

- **FAKE REVIEW DETECTION SYSTEM USING BERT + LSTM**
  - ➤ Generated fake review system specifically for movie reviews and predict their output as true or fake with libraries like TensorFlow.
  - ➤ Engineered a hybrid BERT + LSTM model using pre-trained BERT embeddings, bidirectional LSTM layers for context, a fully connected layer for classification, and a Sigmoid activation for binary output and achieving overall accuracy of 94%.
  - ➤ Conducted data-preprocessing(cleaning, tokenization, lemmatization) , fine-tuned hyperparameters to optimize model performance.
- **6 FLAGS DATABASE CREATION**
  - ➤ Generated a comprehensive relational database of 750 tuples for an entertainment company, applying Agile methodology to ensure flexibility and iterative improvements from initial information gathering to final implementation.
  - ➤ Engineered database in 4 key phases:gathering requirements, designing EER model, constructing relational schema, implementing SQL ad-hoc queries where each phase included 2 sprints.
  - ➤ Optimized the business model, leading to a 5% improvement in customer ratings and driving business
- **ANDROID APPLICATION DEVELOPMENT**
  - ➤ Led end-to-end development of the booking system, managing operational efficiency by 30%, automating registration process.
  - ➤ Integrated SMTP protocol for secure password reset functionality, ensuring reliable email communication.
  - ➤ Incorporated advanced Object-Oriented Programming principles, ensuring a modular and scalable codebase, while focusing on a user-friendly interface, leading to a 25% increase in user satisfaction. Implemented JUnit Testing in testing phase.
- **RAILWAYS GRIEVANCES ADDRESSAL SYSTEM**
  - ➤ Executed a webapp providing real time solutions for issues by posting on Twitter app to monitor, provide analysis over 100 posts to the Indian Railways on daily basis reducing 40% work.
  - ➤ Deployed the web application using RESTful services and the MEAN stack, ensuring seamless integration and reducing deployment errors by 15% and enhanced uptime by 99.9% through effective cloud hosting strategies using Netlify.
- **CATASTROPHE**
  - ➤ Implemented a 2D game using Unity Engine featuring the adaptive difficulty based upon the user gameplay, demonstrated proficiency in C# with a strong application of Object-Oriented Programming (OOP), Software Development Life Cycle methods.
  - ➤ Created detailed UML diagrams to design system architecture, leading to 20% reduction in development errors through effective early-stage planning and phase-based testing.
  - ➤ Captured Editor's Choice for May 2021 by designing an immersive gaming experience that captivated over 1 million players, resulting in a notable increase in download rates and user reviews across platforms.
- **HOME THERAPIST**
  - ➤ Developed an AI-driven virtual assistant with 90% accuracy in voice recognition modules like Python Text to Speech Converter.
  - ➤ Implemented Sentiment Analysis for a specific module using NLP and worked using python file handling.

- **CERTIFICATIONS** - JP Morgan-Software Engineering Job Simulation, Complete C# Unity Game Developer 2D, FullStack Developer