BHAVANI CHANDA

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EDUCATION

Master of Science(MS) - Computer Science GPA - 3.89/4.0
Portland State University, Oregon, USA Jan 2023- Aug 2024
Relevant Coursework: Artificial Intelligence, Machine Learning, Algorithms Design and Analysis, Internetworking Protocols, Computer Vision and Deep Learning, Web Development, Software Engineering, Virtual Reality , Voice Assistants.

Bachelor of Technology(BTech) - Information Technology Aug 2016 - Sep 2020
Jawaharlal Nehru Technological University Hyderabad, India

CERTIFICATIONS

Apache Kafka Essential Training LinkedIn Learning
React.js Essential Training LinkedIn Learning

SKILLS

Programming Languages: Python, Java, C, C++, Angular, React.js, Node.js, AWS, JavaScript, HTML5, CSS, Bootstrap, MySQL, PostgreSQL.
Developer Tools : Eclipse, Visual Studio Code, Anaconda, Spyder, pgAdmin, Jupyter, Android Studio, GitHub, IntelliJ Idea.
Frameworks : Spring Framework, Spring Boot, REST Services, Apache kafka.
Build/deployment tools : Maven, Gradel, Git, Junit.
Web Servers : Tomcat.

WORK EXPERIENCE

Junior Full Stack Developer, Tata Consultancy Services. Oct 2020 – Dec 2022
Learning Platform Project:
Tech Set: Angular, Java, Spring, PostgreSQL

- Spearheaded the development of an interactive learning platform using **Java Spring frameworks** for the backend and **Angular** for the frontend, and **PostgreSQL** for data retrieval, designed specifically for faculty and administrative staff.
- Actively engaged in feature analysis, testing (including writing **JUnit** tests), implementation, and deployment across multiple environments.
- Engineered multiple dashboards to retrieve and display student data spanning over 10 years, providing a seamless user experience and comprehensive access to historical academic records.
- Authored several database procedures in **PostgreSQL** and developed **iReport** PDF/Doc file generation for data on the dashboards, enhancing reporting capabilities
- Significantly improved data accessibility and operational efficiency, empowering faculty and administrators to make informed, data-driven decisions.

PROJECTS

BATTLECODE: Java, Junit, IntelliJ Idea, GitHub, Gradle.

- Developed strategic logic for virtual robots in **Java**, focusing on resource management, territory control, and tactical engagements with opponents.
- Effective usage of algorithms for dynamic decision-making, optimizing resource allocation, and coordinating team-based objectives. This project showcased my ability to design and enhance my skills in Java programming, algorithm optimization, real-time strategy execution and implementing software engineering concepts and methodologies.
- Employed **Agile** methodologies, utilizing detailed user stories and regular scrum meetings to adapt and refine our approach through iterative sprints. We deployed our codebase on **Git**, facilitating collaboration and **version control**, culminating in competitive engagements with other teams.

TETRIS 2048: Python, Tkinter, NumPy, Matplotlib, Minimax Algorithm, Tree Search Algorithm,

- 2048 is a single-player video game that is played on a four-by-four grid. The game is a sliding puzzle that uses numbered tiles, with the numbers 3 and 5 appearing on the initial tiles.
- The goal of the game is to combine the tiles to reach a tile with the number 2048 on it. To implement this game, AI algorithms such as **Minimax** and **Tree search** were used.

TITANIC SURVIVAL PREDICTION: Python, Pandas, NumPy, Scikit-Learn, Matplotlib.

- Utilizes **Decision Tree** and **Logistic Regression** models for Titanic Survival Prediction used test and train data set.
- Achieved 79% accuracy using Decision Tree algorithm and the Logistic Regression algorithm resulted in 89% accuracy, accompanied by insights from precision, recall, and F1-score metrics. Visualizations were meticulously crafted using Matplotlib to highlight gender-based survival disparities.

AN EFFICIENT VERIFIABLE THRESHOLD MULTI-SECRET SHARING SCHEME: Python, Tkinter.

- Developed a Cryptographic technique, uses different secret shares to secure the transmitted data between two endpoints.
- Used formulas for encryption, decryption of data and implementation of algorithm is tested by using different test cases.

INTERNET RELAY CHAT: Python**.**

- Developed and integrated IRC functionality, including connection establishment, room management (creation, joining, leaving, switching, listing), and personal messaging. Ensured usability, performance, and security for enhanced user experience.
- Collaborated with the team to ensure seamless integration and effective communication.
- Conducted thorough testing and debugging to ensure robust performance and received positive feedback.

FLOMINDER: Java, XML, Android Studio.

- Developed and implemented FloMinder, a user-friendly mobile app for menstrual cycle management, with features like pain relief yoga, personalized food recommendations, water reminders, and cycle tracking, utilizing data analytics and machine learning algorithms.
- Received positive user feedback for FloMinder's intuitive interface, accurate cycle tracking, and valuable personalized recommendations, contributing to women's well-being.

NETFLIX MOVIE/ TV SHOW DATA: MySQL

- SQL based project where the source dataset is taken from data world website. The real data is used to import data in tables.
- About 20 queries were written using almost all concepts of **PL/SQL** and an ER diagram also drawn using created relationships.