SAI VAMSHI A
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EDUCATION

Oklahoma State University
December 2023
Master of Science, Computer Science (GPA: 3.54/4.0)

TECHNICAL SKILLS

Computer Languages: Python, R, SQL, PL/SQL, C, C++, C#, Java, PHP, Linux, HTML, Java Script, CSS
Computer Software & tools: Excel, Tableau, Power BI, Jira, Kanban, Git, Microsoft SSIS, React JS
Machine Learning & Statistical Techniques: Predictive Modelling, Ensemble Models, Unsupervised algorithms, NumPy, Pandas, SciKit-learn, NLP

EXPERIENCE

Graduate Research Assistant - Oklahoma State University   **August 2022 – December 2023**
- Worked on "Virtual Reality Immersive Training on Delivering Bad News to Patients using the SPIKES model" in C#.
- Utilized Python for data analysis, visualization, and SQL for database querying to translate statistical findings into actionable insights. Offered data-driven recommendations to optimize the oncologists' training program.
- Leveraged data analysis with Python to forecast future performance trends.

Research Intern – Friedrich Alexander University Erlangen-Nürnberg, Germany   **June 2023 – August 2023**
- Developed a VR simulation to train oncologists in delivering sensitive information to cancer patients using Vive.
- Assessed oncologists on cognition, awareness, concentration, knowledge, HCI elements and analyzed the data.
- Implemented ETL in VR program to capture medical residents' interactions.
- Utilized Tableau and Power BI for data analysis, creating data visualizations, extracting insights on training.
- Conducted statistical analysis using regression to identify training program improvements.

Data Analyst – Accenture, India   **January 2021 – December 2021**
- Analyzed extensive financial datasets using Power BI for the UBS "Finance IT App Services" project.
- Created interactive dashboards in Power BI and Tableau for data analysis and decision-making.
- Led ETL processes ensuring seamless integration of financial data from multiple sources.
- Employed SQL for querying relational databases, ensuring data accuracy.
- Implemented project management tasks in Jira, optimizing workflow through Kanban boards.

Application Developer – Mindtree, India   **June 2019 – December 2020**
- Developed a dynamic web application using JavaScript, React, and Node.js, improving performance by 20%.
- Collaborated with data engineering team for efficient data pipelines and utilized D3.js to create charts.
- Led Agile development, conducted code reviews.
- Experience in using React JS components, Forms, Events, Keys, Router, plus Redux, Animations and Flux concept.

PROJECTS

Virtual Reality Immersive Training on Delivering Bad News to Patients using the SPIKES model:
- VR simulation to train oncologists to deliver bad news (news that are diagnosed with cancer) to patients.

Cricket Ground Booking System:
- Created user registration and login using PHP, HTML, CSS, Bootstrap.
- Enabled users to create, edit, and delete bookings, utilizing SQL Server for data management.
- Implemented a cricket ground search feature, including filtering and user membership functionalities, with JavaScript and React for an interactive user interface.
- Incorporated user interactions such as sharing photos during sports activities and commenting on the grounds. Utilized PHP, MySQL, JavaScript, React, and CSS to create a responsive and engaging user experience.

Detection of Illegitimate Access Point Using Machine Learning:
- Implemented RTT data collection to distinguish between legitimate and illegitimate access points in wireless environments, mitigating data breaches and security threats.
- Used machine learning algorithms such as SVM, KNN, and Decision Tree classifiers for comprehensive analysis.

PUBLICATION
- Published a paper entitled "Detection Of Illegitimate Access Points Using Machine Learning Algorithms", International Journal of Engineering and Computer Science Volume 10, 2319-7242.   **2021**