ANEESH KRISHNA
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EDUCATION

University at Buffalo, The State University of New York, **Buffalo, NY**
Master of Science in Data Science **Dec 2024**
Key Courses: Statistical Learning and Data Mining, Machine Learning, Deep Learning, Database Management
Visvesvaraya Technological University **Mangalore, IN**
Bachelor of Engineering in Computer Science **July 2020**

SKILLS AND CERTIFICATIONS

- **Programming Languages**: Python, Javascript, C#, SQL, R, MATLAB.
- **Tools, Framework and libraries**: Git, Jupyter, pandas, numpy, matplotlib, Tableau, seaborn, Microsoft Excel, Power BI, AWS, PowerApps, GCP, Tensorflow, Pytorch, scikit-learn, CSS, Azure, LLM, Streamlit.
- **Industrial Skills**: Agile methodologies, Data Analytics, Scrum Methodology, ETL, MLOps.
- **Certifications:** Google Data Analytics Specialization, Data Science and Business Analytics.

EXPERIENCE

Senior System Engineer, Infosys Ltd, Mysore, India: **Oct 2020 - Apr 2023**

- Developed SPFX (SharePoint Framework Extension) to replace outdated web-parts, reducing loading time by 30% and delivering effective solutions for enhanced performance.
- Monitored migration of 10 million+ files and metadata from 67 sites operating the Microsoft ShareGate tool to latest site, meeting the expectations of stakeholders.
- Introduced a Proof of Concept to demonstrate the use of SPFX in SharePoint Online sites for replacing outdated features of old SharePoint sites no longer in use.
- Collaborated on a data migration project for a Fortune-50 client, moving 90+ sites from Microsoft SharePoint 2010 to the new SharePoint Online version in a streamlined pipeline.
- Spearheaded a team of five to redesign legacy sites using Angular, resulting in a 60% performance improvement and enhanced user interface in Agile Scrum environment.
- Developed PowerBI reports as well as dashboards to articulate the migration details with stakeholders, aiding in strategic planning of project phases.

RESEARCH EXPERIENCE

Integrated Farming System Using IoT and Bluetooth

- Developed an automatic irrigation system utilizing ESP8266 board, enabling remote control via Android OS cell phones and smart Bluetooth devices, enhancing agricultural efficiency and convenience.
- Engineered a centralized control system for irrigation, replacing conventional switches with remote-controlled options, facilitating ease of operation for users, including the elderly and physically challenged individuals.
- Implemented a modern solution for agricultural automation, integrating cell phone and smart device controls, enabling farmers to manage irrigation without physical presence on-site, optimizing resource utilization.
- Designed an alarm system triggered by buzzers for fence security, enhancing animal and crop safety without relying on electric fences, ensuring comprehensive protection against intruders.

PROJECTS

Optimizing Healthcare Outcomes through Data-Driven Insights & Machine Learning

- Accomplished 90% size reduction by data-cleaning, encoding (to JSON), and performing feature selection on a large dataset, leveraging libraries such as polars.
- Extracted healthcare insights, spotlighting gender and age-specific trends in diseases, post-operative complications, and hospital length of stay using Plotly, Matplotlib and Seaborn libraries.
- Developed predictive models for patient length of stay, attaining an 82% accuracy (R-squared metrics) through Gradient Boosted Trees after Bayesian hyperparameter optimization.

Loan Risk Prediction Model for Small Businesses

- Performed preprocessing on initial Excel data, employing NoSQL to normalize the data and establish a relational database.
- Conducted EDA by querying data with SQLite, producing informative visualizations on business sector distributions and default rates using seaborn and plotly libraries.
- Implemented an ML model for classifying businesses' loan repayment likelihood, achieving a 93% accuracy rate with the Random Forest algorithm.

Sports Data Analytics of T20 Cricket World Cup

- Analyzed 10,000+ game records using Python, processing over 50 attributes to generate detailed performance insights.
- Assessed squad statistics with Pandas and Matplotlib; used scikit-learn algorithms to identify team strengths and weaknesses.
- Utilized Python and Tableau for advanced analytics, building a dashboard to drive insights through detailed trend analysis and performance evaluation.