

ANEESH KRISHNA

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EDUCATION

University at Buffalo, The State University of New York

Master of Science in Data Science

Key Courses: Statistical Learning and Data Mining, Machine Learning, Deep Learning, Database Management

Buffalo, NY

Dec 2024

Visvesvaraya Technological University

Bachelor of Engineering in Computer Science

Key Courses: Algorithm Analysis, Big Data Analytics, Cloud Computing, Data Structures and Applications

Mangalore, IN

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, Hadoop, Keras.
- **Industrial Skills:** Agile methodologies, Data Analytics, Scrum Methodology, ETL, MLOps, Deep Learning, NLP, CNN, Transformers.
- **Certifications and Specializations:** Google Data Analytics Specialization, Data Science and Business Analytics, Deep Learning Specialization.

EXPERIENCE

Senior System Engineer, Infosys Ltd, Mysore, India:

Oct 2020 - Apr 2023

- Implemented SPFX (SharePoint Framework Extension) to replace outdated web parts, reducing loading time by 30% and enhancing performance.
- Monitored migration of over 10 million files and metadata from 67 sites using the Microsoft ShareGate tool to the latest site, meeting stakeholder expectations.
- Introduced a Proof of Concept for utilizing SPFX in SharePoint Online to replace outdated features.
- Collaborated on a data migration project for a Fortune-50 client, migrating over 90 sites from Microsoft SharePoint 2010 to the latest SharePoint Online version in a streamlined pipeline.
- Spearheaded a team of five to redesign legacy sites using Angular, achieving a 60% performance improvement and enhancing user interface in an Agile Scrum environment.
- Developed PowerBI reports and dashboards to communicate migration details with stakeholders, aiding in strategic project planning.

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 via Plotly, Matplotlib and Seaborn libraries.
- Built 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 Random Forest algorithm.

Sports Data Analytics of Cricket World Cup

- Cleaned and preprocessed over 1 million records from ESPNcricinfo of all T20 matches (2015-2023) using Python and Pandas, enhancing data quality for analysis.
- Extracted and analyzed stadium statistics and team performance data for the 2024 T20 World Cup using SQL, Pandas, Tableau, Matplotlib, and Seaborn, providing strategic insights and detailed team profiles.
- Compiled and stored all data insights into CSV files and generated an interactive Tableau dashboard, ensuring efficient data handling and effective communication of key insights.

RESEARCH EXPERIENCE

Integrated Farming System Using IoT and Bluetooth

Dec 2019 – May 2020

- Devised an automatic irrigation system utilizing ESP8266 board, enabling remote control via Android OS cell phones and smart Bluetooth devices, improving 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 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, ensuring animal and crop safety without relying on electric fences, ensuring comprehensive protection against intruders.