ALAHARI VIRINCHI

Amherst MA | (720) 203-5660 | valahari@umass.edu | LinkedIn | GitHub

EDUCATION

Master of Science in Business Analytics 2023 - 2024
University of Massachusetts Amherst - Isenberg School of Management Amherst, MA
Bachelor of Technology in Electronics & Communication Engineering 2017 - 2021
CVR College of Engineering Hyderabad, India

EXPERIENCE

Product Engineer | Temenos AG July 2021 – August 2023

- 87% optimization in operational efficiency by automating the manual microservice update process into a pipeline, reducing the time required from 32 hours to 4 hours for each release.
- Achieved 75% savings on cloud infrastructure costs by designing and automating the deployment of a fully functioning cost-effective testing environment deployment through a pipeline, reducing daily expenses from 1600 to 400 Euro.
- Implemented Disaster Recovery plans and collaborated with Project Management to analyze issues, perform root cause analysis, and implement enhancements across the product's end-to-end pipeline.
- Built and deployed Azure function apps, DB Servers, Namespaces, AKS (Kubernetes) Cluster, Virtual Machines, Microservices, and other Azure resources using ARM templates and ADO Pipelines.

ENTREPRENEURIAL EXPERIENCE

Lead Designer, Volunteer | Digital Equity Foundation (NGO) December 2021 – September 2023

- Launched an internship campaign, attracting 1,500 applications from colleges in remote villages, showcasing broad outreach.
- Achieved 30% increase in engagement and awareness of the NGO's mission and initiatives through executed multimedia campaigns.
- Utilized data-driven design strategies, contributing to a 25% improvement in the effectiveness of visual communication materials.
- Designed, developed, and maintained the organization’s website as well as social media pages using Wix & Adobe Creative Suite.

SKILLS

- **Programming Languages:** Python, R, Java, SQL (DML, DDL), Bash, VBA
- **Tools:** Advanced MS Excel, Tableau, Power BI, RStudio, Airflow, Microsoft Azure, Google Data Studio, Looker Studio, SAP, MS Office 365
- **Data Management:** Data Mining, Machine Learning Algorithms, ETL/ELT, CI/CD, Predictive Analysis, Regression & Classification Techniques.

ACADEMIC PROJECTS

Flight Delay Prediction | Python, ML Models

- Exploratory Data Analysis (EDA) leveraging Python visualization using NumPy & Pandas to identify metrics for feature selection.
- Developed a Multiclass classifier achieving 98% accuracy and 95% recall determining if a flight is cancelled or delayed or on time.
- Built a Multilabel classifier predicting delay reasons with 85.1% accuracy and 8% Hamming loss by using seaborn library.
- Predictive model using polynomial regression and regularization, improving R-squared from 0.3 to 0.82 and reducing MAPE to 0.4.

Sonar (Rocks vs. Mines) | Python, Regression Models

- Conducted exploratory data analysis on SONAR data using sci-kit, examining 61 determining factors for rock and mine detection.
- Enhanced model through feature engineering techniques like scaling and selection, achieving an R-squared value of 0.85.

Social Distancing Monitoring | Python, OpenCV

- Developed a Deep Learning Model with YOLOv3 for Social Distancing monitoring. Utilizing YOLO optimizes runtime, maximizing Frames Per Second (FPS) in live inferencing without compromising accuracy significantly.
- Calculating the distance between the people on the screen using Euclidean distance and give total number of social distancing alerts if they are closer than 50 meters.

Humanoid Robot | Python, OpenCV

- Developed a 17 DOF humanoid robot with OpenCV image processing for both autonomous and user-commanded operations, utilizing a Raspberry Pi along with an Arduino Bluetooth/USB Servo Controller.

Pokémon EDA | Excel, Data Visualization

- Used BeautifulSoup to web scrape and leveraged Advanced Excel techniques, including pivot tables, **VLOOKUP, and SUMIFS**, to analyze various parameters such as attacks, defense, and speed of Pokémon characters and populated a comprehensive Pokédex.
- Analyzed trends focusing on the behavior of legendary Pokémon across different seasons to identify patterns and correlations.

AWARDS

- Awarded with “Temenos Infinity Star” for the contributions made towards release time optimization and reducing the overall infrastructure expenses significantly.