Srikar Amara

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SUMMARY

Polyglot Engineer with over 4 years of work experience as a Python developer and Proficient in customer analytics, Data analytics, time series forecasting, data visualization techniques and dashboard generation for web applications.

SKILLS

Languages	Python, pyspark, Java, C, C#, C++, HTML, CSS, JS, Advanced Shell Scripting, Go.
Frameworks || Libraries || Tools	Power BI, SnowFlake, Tableau, SAS, Selenium, Scikit-learn, Tensor flow, Pytorch, Keras, BeautifulSoup, Scrapy, Django, Bitbucket, Angular, Flask, Kubernetes, Docker, Numpy, Pandas, GitHub, Maria DB, PostgreSQL, MySQL, Microsoft Office Suite.
Cloud Platforms	AWS, Azure.

EDUCATION

Oklahoma State University, *Masters in Computer Science* — Aug 2021 — May 2023

Kalasalingam Academy Of Research And Education, *Bachelors in Computer Science* — Jul 2016 — Jul 2020

WORK EXPERIENCE

Software Developer Intern, *InfraTie Solutions LLC, Oklahoma, United States* — Jun 2022 — Aug 2022

- Built a web application using Django for data mapping sewage reports for 10+ US cities.
- Designed and implemented a user interface with < 5 seconds of video latency, integrated a large-scale video database with over 10,000 videos, and added video streaming functionality for seamless data delivery .
- Implemented a geospatial map interface for viewing city sewer pipelines, utilizing GDAL and ArcGIS to seamlessly integrate with existing infrastructure.

Python Developer, *Semusi Technologies* — Aug 2019 — Jul 2021

- Developed and automated the vader sentiment analysis tool and web scraper to scrape data and to generate sentiment every 24 hours for over 1M reviews from google play store using pyspark.
- Generated top-10 critical events for two applications ”SBI YONO” and ”SMILES UAE” for over 6 months of data.
- Created a Recommendation System to generate credit card offers to users based on their activity and Click Through Rate by using contextual bandits with accuracy of 84 %.
- Upgraded a customer analysis web application using Django, reducing code churn by 90% visualizing over 60M data points using tableau.
- Deployed the application on Azure and automated a script to run redundant background processes, improving operational efficiency by reducing routine task completion times by up to 24 hours.
- Optimized SQL queries, resolved bugs, and reduced response and CPU execution time by 70%.

Python Developer, *CK Fortunes* — May 2018 — Jun 2019

- Created a web scraper module using scrapy and be that integrated seamlessly into an existing platform, providing accurate comparison metrics for 50+ e-commerce sites. The module increased sales and saved users over 20 hours per week.
- Created a web application using Django for scraper module and deployed in AWS using AWS EC2 and Amazon S3 buckets.
- Automated the scraping process by saving 5-10 hrs of work and resources daily, potentially increasing revenue by over 30%.

PROJECTS

Image Generation Using Diffusion Models || Research Project — Jan 2023 — May 2023

- Leveraged cutting-edge technologies such as Variational Auto Encoders and Diffusion models to develop an innovative solution for generating high-quality images for mass producing images from small data sets.

Student Resource Recommender || Capstone Project || Research Project — Jul 2019 — Oct 2020

- Developed a University Management System web application using Django with 10 modules including personalized news recommendation system and study material recommendation which has trained over 20 million news articles.
- Authored a research paper in IEEE on this news recommendation algorithm that outperformed state-of-the-art algorithms, delivering recommendations that are 80% more accurate and quicker.

Lung Cancer Prediction || Research project — Sep 2019 — Oct 2019

- Created an advanced lung cancer prediction tool utilizing deep learning techniques, trained on a data set of over 10 million medical images. This innovative tool enables more precise and effective diagnoses, improving patient outcomes.
- Designed and executed a state-of-the-art analysis utilizing Convolutional Neural Networks and ImageNet models (including LeNet, AlexNet, and VGG-16) to detect lung cancer.

ACHIEVEMENTS

- Received university recognition as Best Research Paper and Project in 2019.
- Presented a research paper in 6th International Conference on Advanced Computing and Communication Systems (ICACCS) on recommendation systems and published the paper in IEEE which has over 40 citations.

PUBLICATIONS

https://scholar.google.com/citations?user=VOBc67oAAAAJ&hl=en