Praneeth Doguparthy

Data Scientist

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Profile:

Software Engineer with experience in providing effective data driven solutions by analysing data, designing, and building various data specific model architectures, enhancing the efficiency, accuracy and predictive power of models. Proficient in dealing with different kinds of data like cross sectional data, text, and images. Ability in packing and deploying the code.

Professional Summary:

- Experience in handling structured, un-structured, supervised and unsupervised data.
- Analysing large amounts of information to discover insights of the data for providing business solutions.
- Selecting features, building, and optimizing different machine learning, deep learning, computer vision models to provide wide variety of solutions.
- Expertise in using different python packages like Pytorch ,TensorFlow, SciPy, NLTK, Sklearn, OpenCV, seaborne etc.
- Building TensorFlow lite models with high accuracy and with less latency.
- Debugging the models by using different Model's interpretability techniques.
- Logging, exception handling, formatting the code to meet the coding standards.
- Developing the code by using best data structures.
- Converting the models into deployable rest api's using Flask framework etc.
- Containerizing the production code for deploying it in CI/CD pipeline.
- Experience in working with different databases like mysql, sqlserver, oracle sql, Postgres, mssql etc.
- Experience with web scraping frameworks and libraries such as Beautiful Soup, Selinum.

Skills & Expertise:

Languages	Python, Sql
Frameworks	Flask, Pytorch, Sklearn , Scipy, NLTK, Hugging Face
Databases	Oracle, Mysql, Mssql, Postgres
Cloud Technologies	AWS(Lambda, ECR, ECS, SNS, SQS, S3, Http api gate way)
Technologies	Machine learning, NLP, Computer vision, Deep learning, Mlops
Additional Tools	Docker, Airflow, Postman ,Git,Kubernetes
Platforms	Unix, Linux, Windows

Work Experience:

- Working as a Data Scientist at Innominds Pvt Ltd – (Jul 2020 – Present)
- Worked as a Associate software Engineer at Nalsoft Pvt Ltd – (May 2017 – Nov 2018)

PROJECT – PDF DOCUMENT PARSING:

Built a software that is capable of parsing the construction documents for extracting all the required entities like Drawing Number, Drawing Name, Drawing category, Version Date, Version Name etc. The software can deal with US and UK drawing formats.

PROJECT – OBJECT DETECTION:

- Built an android application which capable of detecting inventory and then counting the number of displaying number of items available in it.
- Built a model which can identify all different kinds of categories namely persons, helmets, stairs, fence, construction equipment from the videos available from the construction site.

PROJECT – PREDICTIVE ANALYTICS:

Client has an ion source technology as part of ion implantation that sources ions which is part of semiconductor fabrication. During ion implantation heat will be generated around cathode which leads to system failover. We developed a model which can predict and provide an alert 6hours ahead of actual system failover which will help to perform predictive maintenance of the system.

PROJECT – SEQUENTIAL DATA ANALYSIS:

Client is building a package of cyber security services. It will provide simple solution for businesses by providing an effortless monitoring of all the applications and securing them by providing timely alerts if there are any threats occurred based on the transactions data.
- Sensitivity Detection and Classification
- Anomaly Detection in sequential transactions data

PROJECT – REDUCING FALSE ALARM:

Client is on Physical security domain providing multiple services to protect people, buildings and things. We developed and delivered a methodology which can reduce false alarms by 50-70% which can help the system operators and personnel to focus on higher-value risk and also helps in maintenance.

PROJECT – YOGA POSE DETECTION:

Client has a smart yoga technology driven Mobile application which will guide the user to perform yoga asanas properly by providing real time feedback to the user for posture correction and also recommendation of yoga asanas sequences. We have built a model which is able to detect the yoga posture and built a methodology for posture correction.