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Employment

Software Engineer

Algofusion Technology pvt ltd, Bangalore
2023

Feb 2022 to Feb

Developing

- Written generic Python scripts to generate custom reports and Handle large volumes of data, like JSON and SQL data, checking data quality, data pre-processing, cleaning, splitting, concatenating, merging multiple data frames.
- Designing the Reports using Openpyxl, xlrd, xlwriter with automating the Report by Scheduling the Python Script.
- Built & trained models using Python, predicted with data, honed data visualization for effective analysis & presentation, strong understanding of ML algorithms math (regression, classification, clustering).
- Utilized Python libraries such as Pandas, NumPy, Scipy, Opencv, and Sklearn to data manipulate and analysis data, and utilized visualization libraries such as matplotlib, plotly to generate the visualizations.
- Created modules which detects the different bounding box regions provided by the Opencv, yolo-v3 algorithm.
- Developed and implemented automated data migration scripts for a high-volume banking platform, resulting in a 50% reduction in manual effort and improved data consistency.
- Build and Publish **Power BI dashboards** for improved data accessibility and decision-making. Ensuring on-time delivery, as remote desktop (Azure).

Tech Support

- Managed and maintained **Unix/Linux & windows**-based systems, ensuring optimal performance and reliability.
- Conducted routine system checks, and diagnosed and resolved software issues promptly to minimize downtime.
- Collaborated with cross-functional Development team to resolve complex technical issues in remote desktop and ensure seamless operation of IT infrastructure with handling Priorities Tasks.
- Maintained, troubleshoot, and monitored various Dashboard and reporting solutions to proactively identify potential issues and address them before they impact end-users.
- Develop and cost-effective training support solutions to improve productivity and live operations and enable faster actions critical information.

Quality Engineer/Production plan

Aeon Teletronics Pvt Ltd, Bangalore

Jun 2019 to Sep 2022

- Supplier of Mahindra Electric EV Auto parts production
- Works on Molding machining on SMC, maintaining daily production data.
- Improved production planning, optimized processes, and reduced 98% rejections in the year plan.
- Quality Check and error removal. Manpower handling based on the Priorities task.
- Check Inward raw material quality and sampling, production monitoring reduce the error products. Gauge profile measurement quality optimized preprocessing error.
- Final dispatch quality and invoice maintenance.

Education

Coimbatore, India

Karpagam Collage of Engineering / Anna University

Jul 2015 to Mar 2018

- BE (honors) in Electronics and Communication Engineering(ECE) with a CGPA of 6.6.

Namakkal, India

KSR Polytechnic Collage / DOTE

Jun 2012 to Apr 2018

- Diploma(honors) in Electronics and Communication Engineering(ECE) with a percentage of 83%.

Technical Experience

Projects

- **Malaria disease Prediction (POC)** [\[Gitrepo\]](#). I utilized a Deep Learning dataset from iqgateway containing 25,000 red blood cell samples. I developed a custom neural network, employed CNN algorithms, and integrated VGG19 and ResNet50 models for image classification. The well-performing model, with a training accuracy of 0.8678, was deployed end-to-end on a Flask server for efficient predictions on whether a cell is parasitized or unaffected.

- **Recommendation Sysyem (POC)** [\[Gitrepo\]](#). Implemented a movie recommendation system utilizing content-based tagging, Python libraries including Pandas, NLTK with stemming for text processing, and Sklearn for vectorization. The custom tokenize function incorporates stemming, enhancing cosine similarity calculation for personalized movie recommendations.
- **Web NLP Chatbot (POC)**[\[Gitrepo\]](#). Developed a hotel food product website with customer interaction facilitated by a Google Dialogflow ES-powered chatbot. Customized the bot to handle 'New_order' and 'track_order' intents. Deployed the end-to-end solution with a backend FastAPI using Python, connected to a MySQL database. Implemented an HTTPS tunnel using ngrok for seamless website connectivity.
- **Real Estate Price Prediction (POC)** [\[Gitrepo\]](#). Preprocessed Bangalore real estate data, engineered features for outlier detection, and removed anomalies. Applied train-test split and cross-validation for model accuracy, achieving 97% in Linear regression. Deployed the model on an EC2 instance with Flask and Nginx, featuring a frontend with HTML, CSS, and JS, enhancing customer targeting.
- **Data Analysis & Data Visualization** [\[Gitrepo\]](#)- Building multiple kind of Dashboard using Power BI.

Technical Stack

- **DS/ML;** Python, DS lifecycle, CNN techniques
- **Python Framework/Modules;** Pandas, Numpy, Sklearn, OpenCV, Pytorch, Tensorflow, yolo v3
- **Web Dev;** Html, Css, Flask, FastAPI, Django
- **Database;** Mysql, Postgresql, Mongoddb
- **Cloud base Deployment;** AWS (EC2), Git

Personal Particulars

- **Nationality :** Indian
- **Passport No (IND):** R8592295
- **Date of Birth :** 10 Jul 1997
- **Language known :** Tamil, English, Kannada