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Employment

Software Engineer	Algofusion Technology pvt ltd, Bangalore	Feb 2022 to Feb 2023

Developing

- Developed **Python scripts** for **custom report** generation, handling large volumes of **JSON** and **SQL** data. Checked **data quality**, performed **data pre-processing**, cleaning, splitting, concatenating, and merging multiple data frames.
- Designed reports using Openpyxl, xlrd, Pandas, NumPy, data frames, and xlwriter. Automated **report generation** by scheduling Python scripts.
- Built and trained models in Python, applying **regression, classification,** and clustering machine learning algorithms. Utilized **Pandas, NumPy, Scipy**, and **Sklearn** for **data manipulation** and analysis. Created impactful visualizations using **matplotlib** and plotly.
- Developed and implemented automated **data migration** scripts for a high-volume banking platform. Resulted in a 50% reduction in manual effort and improved data consistency.
- Built and published **Power BI dashboards** for improved data accessibility and decision-making. Ensured on-time delivery using remote desktop (**Azure**).

Tech Support

- Managed and maintained **Unix/Linux** and Windows-based systems, ensuring optimal performance and reliability.
- Conducted routine system checks, diagnosed, and promptly resolved software issues to minimize downtime.
- Collaborated with a cross-functional Development team to **resolve complex technical issues** in **remote desktop**. Ensured seamless operation of IT infrastructure while handling priority tasks.
- **Maintained, troubleshot,** and monitored various **dashboards and reporting solutions**. Proactively identified potential issues and addressed them before impacting end-users.
- Developed cost-effective **training support** solutions to improve **productivity**, enhance live operations, and enable faster actions on 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. Guage profile measurement quality optimized preprocessing error.
- Final dispatch quality and invoice maintenance.

Education

Coimbatore, India	Karpagam College of Engineering /Anna University	Jul 2015 to Mar2018

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

Namakkal, India	KSR Polytechnic College / DOTE	Jun 2012 to Apr2018

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

Technical Experience

Projects

- **Malaria disease Prediction (POC)** [Git Repo]. 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.
- **Computer Vision (POC)** [Git Repo]. I utilized OpenCV for image segmentation. Developed an end-to-end system for live camera face detection, facial expression, age & gender detection, and multiple object detections of different bounding box regions using the YOLOv3 algorithm. Deployed the solution in a GUI interface.

- **Recommendation System (POC)** [Git Repo]. 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)**[Git Repo]. 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)** [Git Repo]. 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** [Git Repo]- Building multiple kind of Dashboard using Power BI.

Technical Stack

- **DS/ML;** Python, DS lifecycle, ML techniques, Computer Vision, CNN techniques, selenium web-scraping
- **Python Framework/Modules;** Pandas, Numpy, Sklearn, OpenCV, Pytorch, Tensorflow, yolo v3, tkinter
- **Data visualization;** Power BI
- **Web Dev;** Html, Css, Flask, FastAPI, Django, GUI
- **Database;** Mysql, Postgresql, Mongodb
- **Cloud base Deployment;** AWS (EC2), AWS lambda, Git

Personal Particulars

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