Shruthipriya

Data Scientist | AI & ML Engineer | Python

Full work permit

Certifications

Microsoft Certified: Azure AI Fundamentals (AI-900), 2023.

Contact

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Education

Aug 2016

Bachelor of Engineering

Computer science Major
GSSSIETW/VTU, KA, India

Key Skills

Core: Python 3.x, Python 2.7
Frameworks: Flask, Django
Libraries: Numpy, Pandas, SciPy, Sci-kit Learn, Tensorflow, Keras, NLP
ML models : Linear Regression, SVM, Decision Trees, Logistic Regression, Random Forest, Gradient Boosting, K-means
Deep Learning : LSTM, CNN, BERT
Time Series: ARIMA, SARIMA
Database : SQL (ms-sql), Firebase, mongodb
Data: Data pre-processing, data cleansing, PCA
Data Visualization: MATPLOTLIB, SEABORN, Tableau, Power BI
Cloud: Microsoft Azure, AWS
OS: Linux/Unix,Windows

Profile

Deadline – oriented Data Scientist with 5 years of experience in the development and implementation of data-driven solutions, having a strong background in statistics, Machine Learning, Artificial Intelligence, and Software Engineering with excellent communication and interpersonal skills capable of working independently as well as part of a team.

Professional Experience

Nov 2020 – Sep 2022   Bangalore, India

AI/ML Engineer at Samsung R&D

- *Walking Authentication:* By incorporating the Django framework, the walking pattern verification system can be accessed through a web browser using front-end technologies such as Html, CSS making it more accessible and user-friendly. Django models were defined to represent user profiles, walking pattern data, and other relevant entities.The combination of deep learning models like RNN ,LSTM and CNN, and SageMaker's scalability provides a robust and efficient solution for walking pattern verification on mobile devices. Additionally, technical documentation was created to support the system, providing details on the integration of the models and the SageMaker infrastructure.

- *Sleep Deprivation Analysis:* Developed and contributed to the production along with maintenance of a Python application using firebase. Analyzing one's sleep data and recommending changes to behavior and health habits to get the most amount of sleep by automating the model training and tuning processes. This integration enables the application to leverage powerful machine learning algorithms(LR & RF) and techniques, leading to more accurate and personalized sleep pattern recommendations for the users.

- *GUI Tool Development*: Led a team of interns in building an automated GUI testing tool using the Appium framework and Python. The tool mimics user gestures and validates outcomes of Android applications without human input, by creating a web application using Flask that allows users to configure and initiate the testing process through a user-friendly interface.

- *KLOC Analysis:* By incorporating NLP techniques and integrating a database i.e. Microsoft SQL Server (MSSQL) into the KLOC Analysis tool, can go beyond basic code comparison and provide additional insights into the nature of code changes. When combined with the Django framework, these features can be made accessible through a web application using front-end technologies such as Html, JavaScript, ReactJS. Implement the NLP techniques(BERT) within the Django framework to analyze the code changes. The NLP analysis can help testers and managers understand the purpose and impact of each revision, identify potential issues or areas of improvement, and make informed decisions based on the analysis results also enhanced reports with Power BI.

Nov 2019 – May 2020   Bangalore, India

Junior Data Scientist at Artelus

- *Detection of Diabetic Retinopathy:* Worked on a sub-module of a larger project focused on early identification of Diabetic Retinopathy. Extracted features from images using Python libraries with an UNIX environment and contributed to the prevention of blindness by aiding in the early detection of the disease. Integrated Azure AutoML for advanced machine learning capabilities(K-MEANS, SVM), enhancing the accuracy and efficiency of the detection system.

Internships

- *Prediction of Finished Products:* By incorporating the Django framework and MongoDB integration, the finished product prediction tool can be accessed through a web application using HTML, JavaScript, Bootstrap. Developed RNN and DL models(LSTM+CNN) using Python to forecast finished products using historical data of both raw materials and finished products. Contributed to the data analysis and model development process. Integrated MongoDB for efficient storage and retrieval of data, enhancing the model's capabilities and facilitating seamless data management.

- *Covid-19 Chest X-ray Images Diagnosis:* Utilized Python and machine learning (CNN) techniques to detect pneumonia-causing factors in chest x-ray images. Contributed to the early detection and prevention of pneumonia through image analysis.

July 2017 – Nov 2019   Bangalore, India

Quality Engineer at QualiTest Group India Pvt Ltd

- *Daily and Weekly Internet Usage Analysis:* By integrating Microsoft SQL Server into the Daily and Weekly Internet Usage Analysis system, we enhance the storage, retrieval, and analysis of internet usage data. Leveraged data visualization and machine learning techniques(Linear Regression) to analyze daily and weekly internet usage patterns. Developed Python code to generate Call Data Records (CDRs) and performed data visualization to extract insights for end users.

- *Apollo 5G GTM Testing:* Contributed to the testing of end-to-end scenarios using python scripts working within an Linux environment for the Apollo 5G GTM project. Assessed the functionality and performance of 5G networks in conjunction with 4G networks, focusing on calls, SMS, MMS, and internet services.