Summary

Software Engineer with experience developing Python applications and training and deploying Machine Learning models in Python. Can develop, integrate, and deploy AWS services.

Skills

Languages

Fluent: Python

Intermediate: SQL, Java

Frameworks, API, and Cloud services

Fluent: AWS services: Amplify

Intermediate:

Python: Flask, Django

AWS services: EC2, S3, Simple DB

Databases: MariaDB, MongoDB

Android SDK, Google APIs

Learning:

Machine Learning: Model development with **scikit-learn, TensorFlow, Keras**. Data representation with **matplotlib**.

AWS: Model Training on Cloud Instances with AWS infrastructure, GAN training with **AWS DeepComposer**

Experience

Open Source Contributions

scikit-image: Image processing in Python

- Illustrated usage for natural sort algorithm by processing documentation in PR, which was successfully merged into master branch.

Key Projects

Diabetes Prediction

ML based Android app with a Flask backend that performs diabetes prediction with an ensemble of 6 trained machine learning models.

- Designed application architecture from specification documents, which was used to develop detailed Agile based plan for project development.
- Led a team of 4 developers to create UIs and Kotlin backend code, and delivered functionality on a tight deadline.
- Developed and deployed a Flask application to act as an API and serve as the backend for the Android app.
- Developed pipelined architecture for training and serializing 6 models on the Pima Indians diabetes data set, which were then encapsulated into an ensemble and deployed using a Flask based API

Technologies used: Python, Flask, scikit-learn, Android SDK, Pytest

Machine Learning Projects

- Developed models for the following datasets: Pima Indians Diabetes dataset, Boston Housing dataset, Iris flowers dataset.
- Analyzed the StackOverflow 2019 developer survey.

Technologies used: Python, scikit-learn, TensorFlow, Keras, matplotlib, Pytest,

Education

Bachelor of Technology in Computer Science and Engineering, CGPA:9.1/10, 2016-2020, from JIS University, Kolkata.

Certifications in Data Structures with Python, Social Networks, Machine Learning, Data Science, AWS DeepComposer

 and DBMS from NPTEL and Udacity.