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# Summary

Software Engineer with experience in 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](https://github.com/scikit-image/scikit-image/pull/4599)

* 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.