

Kankipati Pavan Kumar Varma

Python Developer

Professional Summary:

- 3 years of professional experience as a Python Developer with expertise in ReactJS and Django.
- Experience in Data Engineering, Data Analytics, and Data Science. Proficient in Python, SQL, and machine learning.
- Skilled in developing web applications following the MVC architecture using Django.
- Strong knowledge of MySQL database.
- Proficient in version control using Git and GitHub.
- Experienced in using development tools like Sentry, Jira, Visual Studio Code, and more.
- Worked in various domains, including Supply Chain, Transport, Food Delivery, and Human Resource Management.

Technical Skills:

Programming Languages	Python Programming, SQL
Data Analysis	Pandas, NumPy, SciPy, Matplotlib
ML Frameworks	Scikit-Learn
Web Technologies	Reactjs, HTML, CSS
Web Framework	Django
Databases	MySQL
Version Control Platforms	Git, GitHub Desktop
Tools	Sentry, Tableau Desktop

Engagement Overview:

Project #1:

Role: Python web Developer

Project Description:

Customer is a human resource management firm based out of the United States. They provide cloud-based software as a service to companies for managing their human resources, with a particular focus on helping them with payroll and health insurance coverage. We support the business teams by implementing analytics with a goal to optimize the payroll generation and human resource management.

Roles & Responsibilities:

- Perform code migration of all python modules developed in Python 2.4 version to Python 3.9 version.
- Perform performance testing on python modules in Cloud Dev environment and made necessary code optimizations to make application less time complex.
- Used Reactjs in connecting the front end to back-end API services, fetching and sending data to display and fix the issues and later updating the same in user interface.
- Develop a data pipeline using Pandas and NumPy to read the recorded incidents from S3 bucket which is observed by Sentry which is an application performance monitory and error tracking tool for further data analysis.
- Perform bugfix in the code based on the incidents occurred in Sentry application for both frontend and backend.
- Develop a custom function in python to calculate the tax deduction component in payroll based on the tax exemptions claimed by the employee.
- Develop multiple descriptive analysis on employees in the organization to identify the employee churn, low performance Indicators, attendance and growth opportunity.

- The interactive dashboards are created in Tableau to monitor the incidents that occurred in Sentry application.
- Tableau dashboards have been created to assist the human resource teams in monitoring employee performance and growth opportunities.
- Perform unit testing to cover schema validations, data validations, function validations, and other quality checks.

Project #2:

Role: Python Developer

Project Description:

ADAM (Accelerated Development of Analytics using Machine Learning) is an advanced Analytics Accelerator that focuses on productivity improvements during the Exploratory Data Analysis & Model Building stages of the Advanced Analytics Project Lifecycle.

Roles & Responsibilities:

- Develop an application using Python data analysis libraries like NumPy and Pandas for comprehensive exploration and profiling of the data collected from various source systems.
- The ADAM can read data from multiple data sources which includes flat files (Like CSV, Excel, Text, JSON, and Parquet), S3 Bucket, SQL Database, and Azure Blob storage.
- Develop a ML engine to train various machine learning algorithms like Linear regression, logistic regression, Decision trees, random forests, K- means clustering, KNN, Naïve Bayes, Support vector machines, and Gradient Boosting from Scikit Learn library on user request.
- The central tendency theorem, measure of spread (Kurtosis, Skewness, IQR), measure of dispersion (Standard Deviation, Variance), correlation analysis (Correlation, co-variance), Chi-Square analysis, and missing value analysis is performed on data to extract meaningful insights.
- The coding standards and quality is assessed using Pylint library.
- Optimize the code for better performance on big data sets.
- Git and GitHub is used to organise the code and keep the versions.