

# VIGNESWARAN M

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## OBJECTIVE

Experienced Python Developer with expertise in data analytics. Proficient in Python data science libraries like Pandas, NumPy, and Scikit-learn for ML model building. Skilled in data visualization using Matplotlib and Seaborn. Demonstrated track record of writing scalable code, debugging Python projects, and collaborating within teams. Familiar with Git workflows. Eager to apply data science and Python skills to drive impactful solutions in IT Services & Consulting.

## PROFESSIONAL EXPERIENCE

### **Isolve Technologies Pvt Ltd.**

Data Scientist - Python Developer | Mandaveli, Chennai

Jan 2022 – Present

#### **Job Responsibilities and Achievements:**

- Led the development of innovative data science projects, leveraging Python data science packages such as Pandas, NumPy, and Scikit-learn, resulting in improved insights and decision-making processes.
- Successfully built and evaluated machine learning models using Scikit-learn, contributing to predictive analytics solutions and driving business growth.
- Utilized data visualization libraries including Plotly, Matplotlib, and Seaborn to create insightful visualizations, enhancing data-driven storytelling and communication.
- Demonstrated proficiency in writing effective, scalable, and modular Python code, facilitating collaborative development and maintaining project integrity.
- Contributed to debugging and enhancement efforts of existing Python projects, ensuring optimized performance and functionality.
- Applied Git workflows effectively to manage project versions and facilitate team collaboration.
- Demonstrated familiarity with cloud platforms such as AWS, and Google Cloud Platform, enhancing scalability and accessibility of data science solutions.
- Leveraged understanding of shell scripting and Python package development to streamline development processes and improve efficiency.

## EDUCATION

### **Bachelor of Technology (B.Tech) in Computer Science Engineering**

Bharath Institute of Higher Education and Research | Selaiyur, Chennai

July 2015 – May 2019

## SKILLS

Python, Data Preprocessing, Data Manipulation, Model Build, Pandas, NumPy, MYSQL, SQL server, MongoDB, Django, Flask, Model Evaluation, Data Analysis, Data modeling,

Data collecting, AWS, Git version control, Model integration, docker

## PROJECT

### **I-vision | Invoice | Mar 2023 – Present**

**Description:** The I-vision project aims to automate the process of converting invoices to e-invoices. It collects all relevant information, stores it in a database, and sends it to the client. Technologies used include Python, Django framework, and various Deep Learning models such as YOLO, FastRCNN, Spacy, and OpenCV. Data annotation tools like Prodigy are employed for model training. The project is hosted on Internet Information Services (IIS) and managed using NSSM.

#### **Technologies Used:**

- Python
- Django
- Deep Learning models (YOLO, FastRCNN, Spacy, OpenCV)
- Data annotation tools (Prodigy)
- Internet Information Services (IIS)
- NSSM (Non-Sucking Service Manager)

#### **Achievements:**

- Successfully automated the process of converting invoices to e-invoices, improving efficiency and accuracy.
- Utilized advanced Deep Learning models for accurate information extraction from invoices.
- Implemented data annotation processes to enhance model training and performance.

#### **Awards:**

- Received the "Innovation of the Month" award in 2024 for outstanding efforts, resilience, and commitment to the development of I-vision.

### **TAP | Farm Care | Dec 2022 – Mar 2023**

**Description:** The TAP project involves monitoring the health conditions of animals using an IoT device such as a thermal camera with Raspberry Pi. The mobile app is developed in Flutter, and the backend is implemented in Node.js with TypeScript. The database is managed using MongoDB hosted in Amazon Web Services (AWS) and Firebase. Docker is utilized for containerization.

#### **Technologies Used:**

- IoT device (thermal camera with Raspberry Pi)
- Flutter (for mobile app development)
- Node.js with TypeScript (for backend development)
- MongoDB (database)
- Amazon Web Services (AWS)
- Firebase
- Docker

**Achievements:**

- Successfully implemented real-time monitoring of animal health parameters.
- Integrated IoT device with Raspberry Pi for data collection.
- Utilized Docker for efficient deployment and scaling of the application.

**BabySensor | Health Care | May 2022 – Nov 2022****Description:**

The Baby Sensor project involves monitoring the health condition of newborn babies using an IoT device and a mobile app developed in Flutter. The backend is implemented in Node.js with TypeScript, and the database is managed using MongoDB hosted in Google Cloud Platform (GCP) and Firebase.

**Technologies Used:**

- Flutter (for mobile app development)
- Node.js with TypeScript (for backend development)
- MongoDB (database)
- Google Cloud Platform (GCP)
- Firebase

**Achievements:**

- Successfully implemented real-time monitoring of baby's health parameters.
- Integrated live audio functionality for additional monitoring capabilities.

**Awards:**

- Received the "Exceptional Performer" award in 2022 for outstanding teamwork and collaboration.
- Received the "Exceptional Performer" award in 2023 for dedication to customer satisfaction and going above and beyond the call of duty.

**I Start | Banking | Feb 2022 – May 2022**

**Description:** The Handwritten Character Recognition project focuses on developing a model based on Support Vector Machines (SVM) to accurately recognize handwritten letters, numbers, and special characters. The model is built using a dataset comprising 500,000 samples and is deployed on Internet Information Services (IIS) for easy accessibility.

**Technologies Used:**

- Postman
- Python
- Support Vector Machines (SVM)
- Internet Information Services (IIS)

**Achievements:**

- Reduced processing time and improved application speed, enabling the efficient handling of large volumes of files.

## CERTIFICATIONS

- [Python for Data Science](#) Issued by [IBM](#) | Dec 2020
- [Docker Essentials: A Developer Introduction](#) Issued by [IBM](#) | Dec 2020

## PERSONAL DETAILS

Name: Vigneswaran M

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Marital Status: Single

Gender: Male

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