

# GUDIPUDI SIVAKRISHNA

Sattenapalle, Andhra Pradesh, India

+91 6300983934 • [sivakrishnagudipudi6@gmail.com](mailto:sivakrishnagudipudi6@gmail.com)

[in](#) sivakrishna-gudipudi-670015247

## Professional Summary

Results-driven Python developer with expertise in backend development, web frameworks (Django, Flask, FastAPI), and database management (MongoDB, PostgreSQL). Skilled in AI/ML integration, API development, and automation workflows. Adept at full-stack development, problem-solving, and independently delivering high-performance solutions. Seeking to contribute as the first developer in a growing AI-driven application team.

## Technical Skills

**Programming & Frameworks:** Python, Django, Flask, FastAPI, JavaScript, HTML, CSS

**Databases:** MongoDB, PostgreSQL, MySQL

**Automation & Workflows:** n8n, Zapier (basic)

**AI/ML & Data Analysis:** Machine Learning, Data Science, NLP, Pandas, NumPy, Scikit-learn, TensorFlow

**Dev Tools:** Git, GitHub, Docker (basic)

**Visualization & Reporting:** Power BI, Tableau

**Other Skills:** API Integration, Backend & Frontend Development, Responsive Web Design

## Professional Experience

### Machine Learning Intern – Digital Bhem

Jun 2024 – Aug 2024

- Assisted in **developing and optimizing machine learning models** for real-world business applications.
- Performed **data preprocessing, cleaning, and exploratory data analysis (EDA)** using Python.
- Implemented algorithms like **Regression, Classification, and Ensemble methods** for predictive modeling.
- Evaluated models using metrics such as **Accuracy, Precision, Recall, F1-Score, and ROC-AUC**.
- Collaborated with the team to **deploy models and present insights** for decision-making.
- Gained hands-on experience with **Python libraries (Pandas, NumPy, Scikit-learn) and data visualization tools**.

## Projects

### 1) Virtual Mouse Using Hand Gesture Recognition

Aug 2024 – Dec 2024

- Designed and implemented **gesture recognition algorithms** for intuitive human-computer interaction.
- Utilized **OpenCV** for image preprocessing, including **grayscale conversion, thresholding, and contour detection**.
- Integrated **real-time hand landmark detection** for **accurate cursor mapping**.
- Developed **custom gestures** for specific actions like **drag-and-drop, right-click, and double-click**.
- Optimized **frame rate and latency** to ensure smooth and responsive cursor movement.
- Conducted **testing and calibration** to improve **gesture recognition accuracy** under varying lighting conditions.

- Demonstrated practical application of **computer vision, machine learning, and automation**

## 2) Fraudulent Transactions Detection Using XGBoost Algorithm

Dec 2024- May 2025

- Developed a **machine learning model using XGBoost** to detect **fraudulent financial transactions** with high accuracy.
- Performed **data preprocessing, feature engineering**, and **handling class imbalance** to improve model performance.
- Implemented **SQL queries** to extract and filter transactional data for model training.
- Evaluated model performance using metrics like **Accuracy, Precision, Recall, F1-Score, and AUC-ROC**.
- Deployed the solution using **Python and Flask** for **real-time fraud detection alerts**.
- Built a **dashboard to visualize fraud patterns** and insights for stakeholders.

## Education

---

<b>Kalasalingam Academy of Research and Education</b> <i>Bachelor of Technology in Computer Science and Engineering (AIML), CGPA: 8.51/10</i>	2021 – 2025
<b>Sri Chaitanya Junior College</b> <i>Higher Secondary (12th), MPC Stream, Percentage: 94.2%</i>	2019 – 2021
<b>Vijaya Vidhya Vihar High School</b> <i>Secondary School (10th), Percentage: 90.25%</i>	2019

## Certifications & Learning Goals

---

Python Programming (Ongoing)  
Django, Flask, FastAPI (Ongoing)  
SQL & PostgreSQL  
Machine Learning & Data Science  
Power BI & Tableau  
Git & GitHub

## Professional Strengths

---

Strong Python programming and Frontend development skills  
Quick learner with ability to adapt to AI/ML tools and frameworks  
Independent problem-solving with remote collaboration experience  
Familiarity with cloud platforms (AWS, Azure)