

GUDIPUDI SIVAKRISHNA

Sattenapalle, Andhra Pradesh, India

✉ +91 6300983934 • ✉ 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

Kalasalingam Academy of Research and Education

Bachelor of Technology in Computer Science and Engineering (AIML), CGPA: 8.51/10

2021 – 2025

Sri Chaitanya Junior College

Higher Secondary (12th), MPC Stream, Percentage: 94.2%

2019 – 2021

Vijaya Vidhya Vihar High School

Secondary School (10th), Percentage: 90.25%

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)