

CHAITANYA PENTAKOTA

Visakhapatnam, India

Email: chaitupentakota1999@gmail.com

LinkedIn: linkedin.com/in/chaitanya-pentakota-189217192

GitHub Portfolio: github.com/chay2126

PROFESSIONAL SUMMARY

Python Developer experienced in building backend systems, AI based applications, and automation tools. Strong background in Python development, REST API integration, and practical software development. Built multiple projects involving MediaPipe hand tracking, AI agents, and natural language processing focused on solving real world problems through efficient software design.

CORE TECHNOLOGIES

Languages	Python, SQL, C, JavaScript
Backend	FastAPI, Flask, REST APIs
AI and NLP	LLM Integration, PHI-3 Mini, NLP
Libraries	MediaPipe, OpenCV
Databases	MySQL, MongoDB, SQLite
Data Tools	Power BI, Tableau, Excel
Design	Figma, UI and UX Design

PROJECTS

Virtual Mouse

Developed a gesture controlled virtual mouse that enables touchless cursor control using hand gestures captured through a webcam. Implemented real time hand tracking using the Python MediaPipe library to detect finger landmarks and translate gestures into cursor movement, clicking, and scrolling actions.

Tech Stack: Python, MediaPipe, OpenCV

Repository: https://github.com/chay2126/virtual_mouse

File Summarizer

Built an automated document summarization tool that processes large text files and generates concise summaries for users. The system integrates the PHI-3 Mini TLM model to analyze document context and extract key insights from lengthy documents.

Tech Stack: Python, PHI-3 Mini, NLP

Repository: <https://github.com/chay2126/file-summarizer>

Global Stock Agent

Developed an intelligent stock analysis agent that retrieves global stock market data and generates summarized financial insights. The system collects market data through APIs and processes the information to help users quickly understand stock trends.

Tech Stack: Python, APIs, Automation

Repository: https://github.com/chay2126/Global_Stock_Agent

AI Story Teller

Created an AI powered storytelling system that generates creative stories dynamically based on user prompts using natural language processing techniques.

Tech Stack: Python, NLP

Repository: https://github.com/chay2126/story_teller

Apartment Management Application

Developed a backend application designed to manage apartment residents, maintenance payments, and expense tracking using Python and SQLite for structured data storage.

Tech Stack: Python, SQLite

Repository: https://github.com/chay2126/Apartment_Management

PROFESSIONAL EXPERIENCE

Python Developer - Prowess Enterprise, Visakhapatnam (Aug 2022 - Aug 2023)

Developed backend components using Python to support application functionality and efficient data processing workflows. Ensured reliable communication between backend services and database systems.

Managed REST APIs and handled database operations for the TeslaConnects project to ensure smooth data exchange between services and reliable backend functionality.

Conducted manual testing for a Porsche Design website and identified layout inconsistencies and interface issues. Worked with developers to improve usability and interface quality.

EDUCATION

BTech Information Technology - Anil Neerukonda Institute of Technology and Science, Visakhapatnam (2018-2022) CGPA 7.12

Intermediate MPC - Sri Chaitanya Junior College, Visakhapatnam (2016-2018) Marks 543

Secondary School (10th Standard SSC) - The Presidential School, Visakhapatnam (2016) CGPA 6.7

CERTIFICATIONS

Advance Python Certification - DataPro

Data Science Certification - Besant Technologies

NPTEL Certification on Operating System

UI and UX Creative Design Pro Certification - MyCaptain