RAHUL BHATNAGAR

COMPUTER SCIENCE & ENGINEERING STUDENT

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GitHub
https://github.com/rahul12075

SOFT SKILLS

- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

TECH SKILLS

1. Advanced:

- Python
- NLP
- Machine Learning

2. Intermediate:

- Flask
- C++
- Data Visualization

3. Familiar:

- SPSS
- Postman

PROFILE

Computer Science & Engineering student specializing in AI and Data Science with hands-on experience building NLP and machine learning systems. Developed a content-based movie recommendation system achieving 89% accuracy using TF-IDF and Python (Scikit-learn, Pandas). Created SnappyDesk, a voice-enabled AI assistant leveraging Whisper and LangChain to process natural language commands. Built a Flask-based social media caption generator with Ollama LLM integration. Passionate about designing scalable AI solutions through Python, data analysis, and modern frameworks.

EDUCATION

Bachelor of Computer Science & Engineering 2023 - Present
SRM University DELHI - NCR SONEPAT
CGPA: 7.7

12th 2023
Nosegay Public School, Sri Ganganagar
Percentage: 72.4%

PROJECTS

Movie Recommendation System NOV 2024

Developed a content-based movie recommendation system designed to suggest similar movies using NLP techniques. The core engine was built using TF-IDF vectorization to analyze and compare movie metadata such as plot descriptions and genres. Key technologies used include Python, Scikit-learn, Pandas, and NLTK for data processing and model development. The system features a user-friendly web interface built and deployed using Streamlit, offering real-time movie suggestions with a simple and clean UX.

Technologies Used: *Streamlit, NLP, Python , Pandas (Software), Scikit-Learn*

SnappyDesk- A Fast Intelligent Desktop Assistant Powered by Local LLM APRIL 2025 - MAY2025

Snappy is an intelligent, voice-enabled desktop personal assistant that streamlines everyday computing tasks through natural language interaction. Built with Python, Snappy integrates speech recognition (Faster Whisper), natural language understanding (LangChain), and TTS (Microsoft SpeechT5) for a responsive, human-like experience.

LANGUAGES

- English (Fluent)
- Hindi (Fluent)
- German (Basic)

CARRER OBJECTIVE

Seeking opportunities to apply my AI/ML and software development skills in an innovative environment. Aim to contribute to cutting-edge projects in natural language processing, generative AI, and scalable systems while growing as a data-driven engineer

HOBBIES

- Singing
- Travelling
- Playing Instruments
- Building AI Projects

It leverages local AI via Ollama (LLaMA 3.2 Vision) for privacy-friendly, offline language modeling. Key tools include app launching, calendar scheduling, weather updates, and screenshot capture. The assistant features a sleek CustomTkinter GUI with a search bar, mic button, and an animated desktop pet for enhanced user engagement.

Technologies Used: *LangChain, Faster Whisper, Microsoft SpeechT5, CustomTkinter , Ollama*

Social Media Post and Caption Generator JULY 2025

The Social Media Post & Caption Generator is a smart, AI-driven web application designed to automate the process of creating engaging and platform-optimized social media content. It assists marketers, influencers, and business owners in crafting compelling captions, hashtags, and emojis with minimal effort and maximum creativity. Whether promoting a product, sharing a travel story, or building a brand presence, this tool streamlines content creation for platforms like Instagram, Facebook, LinkedIn, and Twitter. The application is built using Python (Flask) for the backend and integrates Ollama AI with llava to handle both text-based and image-based content generation. The intuitive frontend is developed with HTML5, CSS3, JavaScript, and Bootstrap 5, providing a smooth and responsive user experience on both desktop and mobile devices.

Technologies Used: *Python with Flask framework, Ollama, Bootstrap 5 with custom CSS, Pillow (PIL) , HTTPx*

COURSES & HACKATHONS

Introduction To Generative AI
Google, Online
Aug 2024

Introduction To Large Language Model
Google, Online
Aug 2024

Introduction To Responsible AI
Google, Online
Aug 2024

Tata Group - Data Visualization: Empowering Business With Effective Insights Job Simulation (Forage, Online)
Aug 2024

API Beginner Learning Path
Postman, Online
Aug 2024

Introduction To Python
SRM UNIVERSITY, SONEPAT, Online
Dec 2024

Python 101 For Data Science
SRM UNIVERSITY, SONEPAT, Online
Dec 2024

Participation In Web 3.0 Online Hackathon Of Apogee '25
BITS Pilani: Revved-Up Rhapsody (Unstop, Online)
Apr 2025

Introduction To Modern AI
CISCO, Online
Jul 2025