

Saajan P Varghese

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Education

Shiv Nadar University

Aug 2024 – Jul 2028

BTech Computer Science Engineering with Specialization in Internet of Things

Projects

JobGenie.AI: An AI assistant for your career

github.com/JobGenie.AI



- Developed a chatbot using Streamlit and Gemini API to assist users with job-related queries.
- Optimized resumes with up to 37% improved relevance based on job descriptions and returned them as PDFs.
- Generated role-specific interview questions along with suggested answers.
- Focused on enhancing job application success through AI-driven personalization.

Tools Used: Streamlit, Python, Gemini API, Visual Studio Code, Grok

PyVox-An AI Powered voice first text based IDE

github.com/PyVox



- Developed a minimal Python IDE with voice and chat command support for file handling and code execution.
- Built with Tkinter and integrated speech recognition for natural commands like “save file” and “run file”.
- Improved productivity by eliminating manual inputs, making it accessible and beginner-friendly.
- Supports continuous voice input and multi-modal control for a seamless coding experience.

Tools Used: Python, Tkinter, SpeechRecognition, Vosk API, Pyttsx3, OS module, Subprocess, Threading

JumpTube-AI-Powered YouTube Navigator: Search, Transcribe, Summarize

github.com/JumpTube



- Developed an AI-powered YouTube assistant that enables users to search, summarize, and transcribe videos leveraging NLP and speech-to-text models.
- Integrated real-time video analysis pipeline combining Python backend (Flask) with YouTube Data API and Whisper OpenAI model, reducing query latency by 40%
- Implemented intelligent keyword detection and summarization, increasing content retrieval accuracy
- Incorporated a keyword jump feature allowing users to instantly skip to specific topics within a YouTube video.

Tools Used: Python, Flask, ffmpeg, YT-DLP, Typescript, Gemini API, Whisper

Technologies

Languages: Python, C, C++, Java, JavaScript, Typescript, HTML, CSS, SQL, MySQL

Technologies: Whisper, Gemini API, Flask, Rest APIs, Render, ffmpeg, YT-DLP, MongoDB, Supabase, Git, OpenAI API

Frameworks: Streamlit, Flask, Tkinter, LangChain, Pyttsx3, SpeechRecognition, Vosk, Transformers, TensorFlow, Pandas, NumPy

Soft Skills: Teamwork, Leadership, Time Management, Project Management

Achievements And Certifications

Top 80 finalists out of 3500+registrations in VIT Void

Finalist at SNUC Hacks

Advanced to the next round **globally** of AWS AI agent Hackathon