Akshay Kumar

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EDUCATION

Vivekananda College of Engineering and Technology
Bachelor of Engineering in Artificial Intelligence & Machine Learning — Currently Pursuing (2026)

SKILLS

Languages: C, C++, Python, Java, SQL
Tools & Platforms: VS Code, Jupyter Notebook, Git, Power BI, Excel, Kaggle, Google Colab

CERTIFICATIONS

- Tata Group Data Analytics Job Simulation on Forage - September 2025
- Understanding Agentic AI – Aug 2025
- Introduction to Cyber Security – May 2025
- RAG Course for Beginners – Mar 2025
- Generative AI for Beginners – Mar 2025

EXPERIENCE

Codec Technologies Pvt. Ltd
Artificial Intelligence Intern — July 2025 – Aug 2025

- Developed and fine-tuned a Text-to-Speech transcription.
- Built a customer service chatbot leveraging NLP techniques for intent recognition and response generation.
- Documented workflows, results, and maintained code using Git.

PROJECTS

Pneumonia Detection using Deep Learning

- Developed a deep learning model to classify chest X-ray images into viral pneumonia, bacterial pneumonia and normal categories.
- Implemented using Python, PyTorch, and OpenCV, with CNN architecture for feature extraction.
- Achieved over 90% validation accuracy, deployed via Streamlit.

Speech-to-Text Transcription Tool

- Implemented a Python-based model to convert spoken audio or audio file into text in real time.
- Utilized SpeechRecognition library with Google Speech API, enabling both live transcription and file-based processing.
- Improved accessibility by providing a simple, user-friendly tool for accurate speech-to-text conversion.

Customer Service Chatbot

- Built an intelligent chatbot to handle customer queries using TF-IDF vectorization and cosine similarity for query matching.
- Implemented in Python with Scikit-learn, supporting FAQs such as order tracking, returns, and store timings.
- Enhanced customer support by providing quick, automated responses, reducing manual intervention and improving response efficiency.

AI-Powered Cover Letter Generator

- Developed an AI system to automatically generate personalized cover letters by analyzing a user's resume and job description.
- Utilized Large Language Models, LangChain, and a vector database (RAG).
- Users can customize and export cover letters in PDF format.