

NEHA VISHWAKARMA

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PROFESSIONAL SUMMARY

AI Engineer with hands-on experience in building AI-powered applications, NLP pipelines, and backend APIs using Python and FastAPI. Familiar with Generative AI concepts including Transformers, RAG, Whisper, and FLAN-T5 through academic projects and internship training. Interested in developing AI products, automation workflows, and intelligent applications using modern AI technologies.

TECHNICAL SKILLS

Programming: Python

Backend Development: FastAPI, Flask, REST APIs, API Integration

Frontend Development: Streamlit, Gradio

AI & Automation: OpenAI API, Hugging Face, Whisper, Prompt Engineering, Workflow Automation, Web Scraping

Libraries & Data: Pandas, NumPy, Matplotlib, Data Cleaning, Data Pipelines

Tools & Platforms: Git, GitHub, Docker

WORK EXPERIENCE

Newton AI Technology | AI Engineer

Nov 2025 – Apr 2026

- Built NLP and AI mini-projects for text classification, subtitle generation, and summarization using Python and Hugging Face models.
- Worked on customer text cleaning and preprocessing pipelines for sentiment analysis and keyword extraction tasks.
- Performed exploratory data analysis and visualization using Pandas and Matplotlib on customer and airline datasets.
- Worked on training projects involving news classification and toxic comment detection using Python and NLP techniques.

PROJECTS

[AI Voice Call Agent](#) | Python, FastAPI, OpenAI GPT, Twilio

- Developed an AI-powered voice calling application using FastAPI, Twilio, and OpenAI for outbound calling and lead interaction.
- Implemented context-aware conversation flows for automated lead interaction and qualification.

[AI Lecture Subtitle Summarizer](#) | Python, Whisper, FLAN-T5, NLP

- Built an automated pipeline using Whisper for speech-to-text transcription and FLAN-T5 for lecture summarization.
- Evaluated model performance using ROUGE and BLEU metrics to ensure summary accuracy and quality.

[AI ATS Resume Analyzer](#) | Python, FastAPI, FAISS, Streamlit

- Built a RAG-powered ATS Resume Analyzer using FastAPI and FAISS for semantic resume matching and keyword-based scoring.
- Developed AI-generated resume feedback with missing skill detection to help candidates improve their profiles.

EDUCATION

MSc in Information Technology | Reena Mehta College, University of Mumbai

Aug 2023 – Jul 2025

CGPA: 7.80/10

CERTIFICATIONS

Masters Diploma in AI & Data Science | Boston Institute of Analytics, Mumbai

Apr 2025 – Apr 2026