BHAVY CHAUDHARY
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Summary

Versatile and results-driven **Full-Stack Developer** and **AI/ML Engineer** with hands-on experience building scalable web applications, intelligent chatbots, and adversarial machine learning systems. Proficient in **Python, JavaScript, React, Flask, MongoDB, SQL**, and **LLM integration** using **OpenAI API**. Adept at end-to-end development, prompt engineering and API integration. Passionate about building secure, real-world AI-powered solutions.

Education

Degree	Institute/Board	CGPA/Percentage	Year
B. Tech (CSE)	Jaypee Institute of Information Technology, Noida (Final 3 years – Lateral Entry)	8.3	2022-2025
B. Tech (CSE)	Manipal Institute of Technology (MIT), Bengaluru	8.43	2021-2022
Senior Secondary	Central Board of Secondary Education	94.6%	2021
Secondary	Central Board of Secondary Education	91.8%	2019

Technical Skills

- **Skills**: C | C++ | Python | JavaScript | Machine Learning | Large Language Models (LLMs) | LangChain | RAG | OpenAI API | Artificial Intelligence | HTML | CSS | React.js | RDBMS (MySQL) | R Programming | Data Analytics | MongoDB | Flask API
- **Soft Skills**: Problem Solving | Communication | Leadership | Critical Thinking | Adaptability | Collaboration

Work Experience

Ras Tech Serv Pvt Ltd. *Jan 2025 - Present*
Full Stack Intern *New Delhi, India*

- **Skills:** Flask, MongoDB, JavaScript, HTML, CSS, Framer Motion, Intent Modeling, React, GitHub.
- Designed and deployed the company's official website using Flask, MongoDB, and a modern JavaScript frontend — improving client lead capture efficiency by 40% through a responsive contact form and integrated backend routing.
- Built **RASBot**, an AI-powered chatbot using an intent classification model (NLU + rule-based fallback), automating 60% of client queries and reducing response time by over 50%, enhancing user retention.
- Developed **Stan Captcha Bot**, an interactive CAPTCHA system with real-time emotion-triggered animations using Framer Motion and vanilla JS, increasing human verification rates by 35% and improving UI engagement.
- Optimized UX with video background, adaptive layouts, and smooth animation transitions — leading to a 25% drop in bounce rate during internal testing.

Defence Research and Development Organisation (DRDO) *May 2024 – July 2024*
AI/ML Intern *New Delhi, India*

- **Skills:** Adversarial Machine Learning, Cybersecurity, JavaScript and Next.js .
- Implemented **Jacobian Saliency Map** and **Substitute Model** adversarial attacks in Python to test neural network robustness, improving vulnerability detection coverage by 45% across defense-grade ML models.
- Engineered frontend modules using **JavaScript** and **Next.js** for a secure internal web platform, enabling real-time visualization of attack impact and cutting manual evaluation time by 30%
- Collaborated with AI researchers and defense engineers to integrate ML pipelines into a production-ready interface, enhancing interpretability and operational deployment readiness.

India Today Group *March 2024 – May 2024*
Intern - Election Chatbot Development *Noida, India*

- Developed an AI-powered election chatbot for **Lok Sabha 2024**, leveraging **LangChain**, **LLMs**, and the **OpenAI API** to translate user queries into SQL and retrieve real-time election data from a **PostgreSQL** database using a structured **Retrieval-Augmented Generation (RAG)** approach.
- Designed custom **prompt templates** and **agent chains** tailored to Indian election data (1962–2023), significantly enhancing query relevance, accuracy, and adaptability to complex natural language inputs.
- Built a user-facing interface using **Streamlit**, enabling live input handling and interactive access to constituency-level insights.

Project

Android App "Mood Music": Music Recommender through Emotion detection using Deep Learning *July 2023 - December 2023*

- Proposed and developed an Android application that dynamically adapts music playlists based on facial emotion analysis. using a self-made **Convolutional Neural Network (CNN)** model built with **PyTorch**.
- Designed user-friendly interface and optimized back-end processes for efficient emotion detection and music recommendation.
- Demonstrated the feasibility of emotion-aware computing and contributed to the field of affective computing by showcasing the potential of emotion-aware applications in enhancing user experience.

Achievement

IEEE Research Paper: (Link to Paper)
MOODMUSIC: An Android App for Mood-Based Music Player using Deep Facial Expression Detection

- Developed an Android app that uses facial expressions to detect mood and recommend music.
- Designed an 8-layer convolutional neural network model achieving 89% accuracy on training data and 60% on test data.
- Implemented data augmentation and integrated mood-based music playback functionality.

Certificates:

- **Google Data Analytics** Professional Certificate | Link *January 2025*
  Issued by Google via **Coursera**
- **Generative AI Study Jams** Certificate | Link *May 2023*
  Issued by **Google Developer Student Clubs**