

ARYAN SHARMA

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SUMMARY

Computer Engineering student specializing in AI and ML, skilled in Python, TensorFlow, and scikit-learn, with hands-on experience in NLP, recommendation systems, and reinforcement learning. Passionate about building innovative, data-driven solutions.

EDUCATION

BHARATI VIDYAPEETH (DU) COLLEGE OF ENGINEERING	Pune, Maharashtra
Bachelor of Technology in Computer Engineering – CGPA: 9.0 /10	2022-2026
St. Antony Inter College	Lucknow, Uttar Pradesh
Percentage: 80% (XII)	2022
St. Antony Inter College	Lucknow, Uttar Pradesh
Percentage: 81% (X)	2020

EXPERIENCE

SDE Intern – Bluestock Fintech	July 2025 – Sep 2025
<ul style="list-style-type: none">Designed and deployed AI-powered backend modules, reducing data processing latency by ~25% and improving recommendation accuracy by ~40% in financial workflows. Built and optimized REST APIs and microservices to handle real-time market data and user requests with better scalability.Collaborated in agile sprints with developers and product teams, contributing to production-grade features for fintech applications. Gained hands-on experience with cloud deployment, CI/CD pipelines, and version control (Git) while working on real-world product integrations.	
AI & Cloud Intern – IBM SkillsBuild (Edunet Foundation, AICTE)	July 2025 – Aug 2025
<ul style="list-style-type: none">Built end-to-end projects on IBM Cloud, including AI-powered chatbots and ML pipelines using Watsonx and AutoAI improving automation efficiency by 75%. Conducted data analytics and cloud experiments.Conducted data analytics, applying EDA and ML techniques to real-world datasets.	

PROJECTS

AI Medical Assistant & Skin Disease Detection System

- Developed an AI-powered medical chatbot with symptom-based and image-based disease prediction using FastAPI, React, and ML models (Naive Bayes, Random Forest, Hugging Face).
- Integrated Doctors API for specialist recommendations and deployed real-time analysis with joblib for text and image inputs.
- Project Link: [Medical Assistant](#), System Architecture: [Architecture Diagram](#)

Trippy – AI-Powered Travel Planning Assistant

- Built VacAgent, a task-planning agent that generates structured, daily itineraries using CrewAI for intelligent, context-aware task division. Integrated into an **interactive Streamlit dashboard**, enabling users to explore personalized travel plans with ease.
- Leveraged **FastAPI, Browserless APIs, and Agentic AI** to deliver a scalable, adaptive travel planning solution.
- Project Link: [Trippy Trip Planner](#), System Architecture: [Architecture Diagram](#)

Automated Book Publication Workflow

- Designed an **AI + human-in-the-loop pipeline** to automate publishing of public-domain books, including scraping, rewriting, reviewing, and versioning with metadata storage in ChromaDB. Enhanced quality control using **Reinforcement Learning (Q-Learning)** with a custom reward function that balances **grammar accuracy** and **lexical diversity** in generated text.
- Developed an **interactive Streamlit interface** powered by Python, Gemini, and Playwright for seamless end-to-end book processing and scalable content management.
- Project Link: [Automated Book Publication Workflow](#)

SKILLS

- Programming Languages:** Python, Java, SQL, JavaScript, React
- Machine Learning & Data Science:** TensorFlow, PyTorch, scikit-learn, pandas, NumPy, LangChain, CrewAI, LangGraph
- Frameworks & Cloud:** Flask, Streamlit, Firebase, REST APIs, IBM Cloud, ChromaDB, FAISS, Qdrant, PostgreSQL
- Development Tools:** Git, GitHub, VS Code, IntelliJ IDEA, Anaconda, Jupyter Notebook
- Deployment Platforms:** Hugging Face Spaces, Render, Streamlit Cloud, Vercel
- Models & LLMs:** LLaMA 2, Mistral, OpenAI, Google Gemini Pro, DeepSeek, Groq

CERTIFICATIONS

- Getting Started with Artificial Intelligence (**IBM**) - Certificate Jul 2025
- Journey to Cloud: Envisioning Your Solution (**IBM**) - Certificate Jul 2025
- Generative AI with Large Language Models (**Coursera**) - Certificate Apr 2025
- Software Engineering, IIT Kharagpur (**NPTEL**) - Certificate Jul 2023 – Oct 2023