

DEBADRITA DEY

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EDUCATION

- VIT Bhopal University** Madhya Pradesh, India
Bachelor of Technology, Computer Science; GPA: 8.73 September 2022 - June 2026
- Khantura Girls High School** Kolkata, India
WBCHSE; Percentage: 93.43% June 2019 - June 2021
- Khantura Girls High School** Kolkata, India
WBBSE; Percentage: 91.6% May 2019

SKILLS SUMMARY

- Languages:** Python, C++, JavaScript, R, Java, HTML, CSS
- Frameworks:** Scikit, NLTK, SpaCy, TensorFlow, Keras, Django, Flask, PyTorch
- Tools:** Kubernetes, Docker, GIT, MySQL, SQLite
- Platforms:** Linux, Web, Windows, AWS, IBM Cloud
- Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- Omdena New Delhi Chapter** Remote
Junior ML Engineer (Part-time) June 2023 - July 2023
 - Data Collection:** Led a team of 10 in data collection and preprocessing, ensuring data accuracy and readiness for analysis
 - Model Training using Deep Learning Algorithms:** Developed and trained models using Extra Trees Classifier and LightGBM algorithms, achieving an accuracy of 91.30%
- Omdena VIT Bhopal University Chapter** Remote
Project Contributor (Part-time) March 2023 - May 2023
 - Developed an AI Based Road Inspection System:** The project aimed to improve road inspection efficiency.
 - Implemented YOLOv5 machine learning model and image processing technique to classify road defects:** Leveraged HD cameras for data acquisition, implemented transfer learning for model training and testing, and developed a dashboard to visualize actionable recommendations for municipalities
 - Impact:** This initiative addressed labor-intensive inspections and aimed to enhance road quality and economic efficiency

PROJECTS

- Find My Project | [GitHub Link](#)** March 2025 - April 2025
AI/ML Web Application
 - Web Application Development:** Developed a **data-powered web application** using **Streamlit** to recommend GitHub projects to users based on their chosen technology, language, and tags/libraries.
- Recommendation Engine:** Implemented a **content-based recommendation system** utilizing **scikit-learn** (e.g., 'TfidfVectorizer', 'cosine_similarity')
- Adhira | [Link](#)** Feb 2024 - April 2024
AI-driven Chatbot Development
 - Chatbot Development:** Developed an **AI-driven chatbot** named Adhira, specifically designed for Indian women to address safety issues and provide legal guidance.
 - Core Technologies:** Utilized **Natural Language Processing (NLP)** and the **Gemini API** for fine-tuned and accurate responses.
 - Knowledge Retrieval Optimization:** Implemented **FAISS-based knowledge retrieval** for fast, accurate legal document search, integrated the Gemini API for enhanced responses, and **collaborated with a team of 2 members** to optimize chatbot performance.
 - Web Integration:** Integrated Adira into a website built using **Next.js**, **Node.js**, and **MongoDB**.

ACHIEVEMENTS

- Achieved a Top 50 position among 200+ teams in the Amazon Sambhav Hackathon
- Contributed to GirlScript Summer of Code'23
- Successfully qualified for Smart India Hackathon 2023 and 2024 after clearing all 3 internal rounds among 300+ teams

CERTIFICATIONS

- NPTEL Cloud Computing (Elite+Silver Certificate)
- NPTEL Marketing Analytics (Elite+Silver Certificate)
- Google Data Analytics Professional Certificate

VOLUNTEER EXPERIENCE

- Finance and Sponsorship Lead at E-Cell VIT Bhopal** Madhya Pradesh, India
Handled the expenses of E-Summit'24 and collaborated with 10+ Sponsors September 2024 - April 2025
- PR and Outreach Team Member of Health-O-Tech VIT Bhopal** Madhya Pradesh, India
Networked with esteemed people, organized events, conducted workshops reaching over 10k+ students. Jun 2023 - Jun 2024