

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
Courses: Internet Of Things, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Object Oriented Programming, Databases

SKILLS SUMMARY

- Languages:** Python, C++, JavaScript, SQL, R, JAVA, HTML, CSS
- Frameworks:** Scikit, NLTK, SpaCy, TensorFlow, Keras, Django, Flask, NodeJS,
- Tools:** Kubernetes, Docker, GIT, PostgreSQL, MySQL, SQLite
- Platforms:** Linux, Web, Windows, Arduino, Raspberry, 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
 - Project Title - 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

- RescueLink - An emergency SOS mobile application (NLP,Flutter,RESTful API,Firebase,Database,ML Models):** (Work in progress) By integrating GPS technology, real-time location tracking, and advanced communication tools, this app connects users to the nearest and most appropriate emergency services with minimal effort
- ADHIRA a legal chatbot integrated in a web application to solve all legal related queries especially for women (LLM,LSTM,CNN,LLMA,NLP,CNN,DL,FIREBASE,NEXT.JS,API INTEGRATION):** Developed and deployed a multilingual legal chatbot capable of addressing legal queries in various Indian regional languages with 70% accuracy. Hosted on Vercel, the project attracted an average of 5 new users per day during its initial launch phase (Link)
- Personality Prediction Using Machine learning Model (Logistic Regression, Pyresparser):** Designed a system to predict individual personality traits using inputs such as gender, age, and Big Five Personality Traits scores (openness, conscientiousness, extraversion, agreeableness, neuroticism) to streamline HR processes. Tech: Python, Pandas, Numpy, Tkinter, Pyresparser, Scikit-learn
- Mental Stress Detection Using EEG Signals:** Preprocessed EEG data, including brainwave frequencies and amplitudes, and calculated Power Spectral Density (PSD). Trained the system using classification models (SVM, Decision Tree), achieving an accuracy of 70%.
- Virtual Painting(Computer Vision):** Built a real-time virtual paint application with advanced color detection and a user-friendly interface. Utilized OpenCV for precise color detection and contour analysis to enhance functionality. Tech: Python, OpenCV, NumPy

ACHIEVEMENTS

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

CERTIFICATIONS

- NPTEL Cloud Computing
- The Bits and Bytes Of Computer Networking (Link)
- 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 - Present
- 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