Shreenita Saha

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EDUCATION

VIT Bhopal University   Bhopal, Madhya Pradesh
Bachelor of Technology   Expected September 2026
  Major in Computer Science; Minors in AI ML
  Cumulative GPA: 9.16/10

TECHNICAL SKILLS

- **Languages and Frameworks**- C++ (DSA), Python, Flask, TensorFlow, HTML, CSS
- **Databases**-SQL, MongoDB

WORK EXPERIENCE

IIIT Guwahati   Remote
Machine Learning Researcher   May 2024 – Nov 2024
- Researched priority-based layer-wise connections in social networks, focusing on graph-based modeling and relational data analysis.
- Applied PCA and statistical correlation analysis feature engineering techniques to enhance prediction accuracy and uncover meaningful social interaction patterns.

PROJECTS

Emergency Response System: ResQLink | ML+ FullStack   March 2025
Tech Stack: Python, Flask, HTML/CSS, JavaScript, Google Maps API, Google AI Studio, MongoDB
- Developed an AI-powered emergency response system enabling patient reporting, voice-based multilingual documentation, and ambulance tracking to streamline critical care workflows
- Integrated patient and hospital interfaces for seamless communication, automating case updates, fleet management, and doctor assignments.
- Enhanced emergency care accessibility and responsiveness in urban Indian settings with the multilingual feature.

Harry Potter's Invisibility Cloak | Computer Vision   Dec 2024
Tech Stack: Python, OpenCV, NumPy, Jupyter Notebook
- Engineered a real-time invisibility cloak effect by isolating cloak color using HSV masking and replacing it with a static background frame.
- Implemented image segmentation, morphological transformations, and contour tracking to improve accuracy , reduce noise.
- Achieved 90% background reconstruction fidelity with sub-50ms frame processing time, enabling smooth, real-time performance.

Text Classification and Summarization | Natural Language Processing   Sept 2024
Tech Stack: Python, NLTK, NumPy, Pandas
- Designed and implemented a custom TF-IDF-based algorithm for text summarization, achieving a 2.25% improvement in accuracy over standard baseline models.
- Published peer-reviewed research in IEEE Xplore (Scopus-indexed), demonstrating novel enhancements in extractive summarization techniques.

CO-CURRICULAR

Technical Clubs (AI Club, Fintech Club , Null Chapter)   VIT Bhopal
Editorial and Management Team   Jan 2023- May 2025
- Authored articles on AI Pets and journalism for the club newsletter. Managed hackathons and recruitment process.

Bengali Club (Vice President)   VIT
Bhopal
- Conducted cultural events ,administrative tasks while supervising teams to ensure smooth execution.   Feb 2024-Feb 2025

ADDITIONAL

Languages: English, Bengali, Hindi
Certifications & Training: MongoDB Database Administrator(MongoDB)