

Vaibhavee Singh

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Education

- **Bennett University, Times Group** CGPA: 8.47
B.Tech CSE (Since 2022)
- **Delhi Public School, Dhanbad** 81%
12th Grade (2022)
- **Delhi Public School, Dhanbad** 95%
10th Grade (2020)

Achievements

- Top 10 Grand Finalist at Luminous Techno-X 2024: Developed **PrabhaWatt**, a solar energy management and electricity saving platform.
- Published research paper "Identifying Spam Accounts on Instagram" in IEEE IC3SE-2024 conference proceedings.

Certification

- Certified Cloud Practitioner AWS
- Foundations of User Experience (UX) Design Google
- The Bits and Bytes of Computer Networking Google
- Introduction to Computers and Operating Systems and Security Microsoft

Skills

- **Languages:** Python, C++, SQL, JAVA
- **ML/DL Frameworks:** TensorFlow, PyTorch, Keras, Scikit-Learn, XGBoost
- **Data Processing:** NumPy, Pandas, SciPy, OpenCV
- **NLP:** NLTK, SpaCy, Transformers, BERT, GPT
- **Visualization:** Matplotlib, Seaborn, Plotly, PowerBI
- **Cloud:** AWS
- **Development:** HTML, CSS, JavaScript, React, NextJS, Flask, Django
- **Tools:** Git, Docker

Work Experience and Positions of Responsibility

- **Trainee at CSIR-CIMFR, Dhanbad** July 2024
 - Conducted research and analysis on social media data, focusing on user engagement and sentiment trends.
- **Research Co-Head at WIE-IEEE Bennett Chapter**
 - Worked closely with the content and technical team in organizing and executing research-focused initiatives, workshops, and projects.
- **Design Co-Head at Bennett Cloud Computing Club and Product Design Technology Club**
 - Spearheaded design initiatives for cloud-related projects and supported club events on cloud technologies.
 - Organized hands-on sessions on AWS and GCP to promote cloud skills among members.

Relevant Projects

- **Ziptyn: File Compression and Extraction Tool**
Developed a fast and lightweight tool in Rust for file compression and extraction. Supports multiple formats with high performance and a simple command-line interface.
 - **Sentilytics: Real-Time Social Media Sentiment Analysis**
Engineered a sentiment analysis system using BERT and transformer models for high-accuracy classification. Designed visual analytics to display sentiment trends over time, aiding strategic decision-making.
 - **Redactify: Multimedia Redaction Tool**
Built a Streamlit-based tool for automated redaction of sensitive information in text and images. Integrated OCR for text processing and NER for text redaction. Developed face detection and anonymization to ensure privacy in multimedia content.
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