Vansh Khandelwal

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Education

Indian Institute of Technology (Indian School of Mines) — Expected May 2026
Bachelor of Technology in Electronics and Communication Engineering (GPA: 8.10 / 10.00) — *Dhanbad, Jharkhand*

Lal Bahadur Shastri Public School — May 2022
Higher Secondary Education (Percentage: 93.4) — *Jaipur, Rajasthan*

St. Xavier's School — May 2020
Secondary Education (Percentage: 94.6) — *Bhiwadi, Rajasthan*

Technical Skills

Programming Languages: Python, C++, SQL, JavaScript, HTML, CSS **Machine Learning & Data Science**: NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, Matplotlib, Seaborn **Tools & Platforms**: Git, AWS, Flask, Jupyter Notebooks **Machine Learning Techniques**: Regression, Classification, Clustering, Data Preprocessing, Feature Engineering **Other Skills**: Prompt Engineering, Statistical Analysis, Data Visualization, Problem Solving

Experience

Zeru – Machine Learning Engineer — April 2025 – Present

- Analyze user behavior data across blockchain networks using Python (NumPy, Pandas) to extract actionable insights
- Develop and optimize machine learning models to compute a decentralized **Z-Score** system for DeFi participants
- Implement data preprocessing pipelines to clean and transform raw blockchain data for model training
- Apply statistical methods and machine learning algorithms to identify patterns in user financial activities

Soul AI – Prompt Engineer — February 2025 – April 2025

- Designed and optimized AI-driven prompts for Large Language Models (LLMs) to enhance model accuracy and relevance
- Experimented with various prompt formats and parameters to improve model performance and reduce hallucinations
- Collaborated with data scientists to evaluate and validate prompt effectiveness using quantitative metrics
- Documented best practices and created knowledge base for optimizing interactions with generative AI systems

Projects

Cancer Classification Model | Repository Link

- Built a machine learning classification model using **TensorFlow & Keras** achieving **98% accuracy**
- Implemented data preprocessing techniques including normalization, outlier detection, and feature selection
- Applied oversampling and regularization methods to address class imbalance issues in the dataset
- Evaluated model performance using appropriate metrics (precision, recall, F1 score) and cross-validation techniques

Entity Recognition System | Repository Link

- Developed an automated NLP system for extracting entities from Hindi and English texts using **SpaCy** and **Stanza**
- Implemented comprehensive text preprocessing pipeline including **tokenization, stopword removal, and lemmatization**
- Achieved **88% accuracy** in entity identification through iterative model optimization
- Documented methodology and created visualization tools to interpret model results

Attendencer: Facial Recognition System | Repository Link

- Developed an automated attendance system using computer vision and machine learning techniques
- Implemented real-time face detection and recognition using **OpenCV** and face-recognition libraries
- Built interactive user interface using **PyQt5** with data visualization components
- Achieved **99% accuracy** through model optimization and appropriate feature extraction methods

Relevant Coursework & Certifications

Coursework: Data Structures and Algorithms, Machine Learning, Linear Algebra, Probability and Statistics, Neural Networks, Cloud Computing **Self-Learning**: Deep Learning Specialization, Machine Learning with Python, Data Preprocessing Techniques, Prompt Engineering

Technical Achievements

- Solved **300+** algorithmic problems on **Codeforces** and **Codechef**, demonstrating strong problem-solving skills
- Earned **5 Star badge** in problem solving on **HackerRank**
- Implemented **200+** data structures & algorithms on platforms like **Leetcode** and **GeeksforGeeks**
- Achieved a global rank of **3256** in Meta Hacker Cup 2023 Round 2
- Secured a global rank of **2678** in Codeforces Round 955 (Div 2) Contest

Leadership & Activities

- **DUGC (Departmental Under Graduate Committee) Member**: Electronics Branch - Representing student concerns and collaborating with faculty on curriculum development
- **Co-ordinator**: We The Crew Club, Official Street Dance Club of IIT (ISM), Dhanbad - Organizing events and managing team activities
- **Sports Captain and General Secretary**: Led school teams, demonstrating leadership and organizational skills
- **1st position** in Street Dance Battle at Inter IIT Cultural Meet 6.0