ANANDITA GUPTA

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Education

Birla Institute of Technology, Mesra **Ranchi, Jharkhand**
Integrated M.Sc. in Mathematics and Computing; CGPA: 9.36 *Nov 2022 – Present*

H.N.S.M. Academy **Jaunpur, Uttar Pradesh**
12th: 84.03%, 10th: 88.01% *2017 – 2022*

Technical Skills

- **Languages:** C/C++, Python
- **Libraries/Frameworks:** TensorFlow, NumPy, scikit-learn, pandas, matplotlib
- **Tools:** Git, GitHub, VS Code, LaTeX, Notion, Matplotlib, Mathematica, Canva, Adobe Photoshop
- **Databases:** MySQL, Oracle

Relevant Coursework

- Programming for Problem Solving
- Data Structures
- Object-Oriented Programming
- Operating Systems
- Database Management Systems
- Design and Analysis of Algorithms

Projects

AI-Based Credit Risk Evaluation **GitHub**
Technologies: TensorFlow, scikit-learn, LSTM, matplotlib
- Built LSTM model to predict credit default risk using the "Give Me Some Credit" dataset.
- Improved performance via normalization and early stopping; achieved 80.3% accuracy and 79.9% F1-score.
- Compared against Logistic Regression, Decision Tree, Random Forest; LSTM outperformed by up to 6%.

DDoS Attack Detection from Network Packets **GitHub**
Technologies: Python, scikit-learn, TensorFlow/Keras, Pandas, NumPy, Matplotlib, Seaborn
- Built a DDoS attack detection system using CICIDS2017 dataset; applied Random Forest, Logistic Regression, and Neural Networks for traffic classification.
- Achieved an outstanding 99.95% accuracy with Random Forest, significantly outperforming Logistic Regression (94.6%) and Neural Network (98.3%).
- Designed an end-to-end ML pipeline (data preprocessing, model training, ROC/confusion matrix evaluation, feature importance visualization).

Competitive Programming

- Solved 150+ problems on LeetCode
- Regular participant in contests; strong problem-solving and optimization skills

Certifications

- **Machine Learning by DeepLearning.AI (Coursera)** – Certificate

Positions of Responsibility

Senior Executive Member – Society for Data Science, BIT Mesra
May 2024 – Present
- Led sponsorship efforts and secured funding for events; enhanced engagement with industry sponsors.
- Supported logistics and planning to improve event execution and visibility.

Assistant Coordinator – Design Teams, NSS BIT Mesra
Apr 2024 – Present
- Created posters and digital content for NSS social media; improved reach and visibility.
- Managed logistics for events like Prabhat Pheri and Blood Donation Camp.