Mannat Gupta

Roll No.: 24404011127

B-Tech Mathematics and Data Science

Maulana Azad National Institute Of Technology, Bhopal

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 GitHub Profile

 LinkedIn Profile

EDUCATION

Maulana Azad National Institute Of Technology, Bhopal *2024–2028*
B-Tech Mathematics and Data Science CGPA: 9.44

Vidya Vijay Bal Mandir *2023–2024*
CBSE, Madhya Pradesh Percentage: 91.6

St. Joseph's School *2021–2022*
CBSE, Madhya Pradesh Percentage: 96.8

PERSONAL PROJECTS

AI-based Crop Recommendation System
AI system with crop prediction, RAG-based chatbot, intelligent crop practice recommendations, and 7-day weather forecasting.

- Tools: Python, ML, NLP, RAG, Transformers, Generative AI
- ML models trained on NPK, pH, humidity, rainfall, and temperature.
- RAG-based farmer chatbot for fertilizer, irrigation, pest control & schemes.
- AI-driven crop practice recommender for sowing cycles & fertilizers.

Detection of Anti-India Campaigns on Social Media
NLP pipeline detecting propaganda using Twitter & Reddit APIs with metadata-based confidence.

- Tools: Python, NLP, Sentiment Analysis, APIs, Transformers
- Extracted real-time posts via APIs and processed semantically.
- Classified anti-national/misleading posts using transformer models.
- Used likes, comments, reposts to boost confidence scores.
- Created dashboards showing sentiment polarity & spread.

TECHNICAL SKILLS AND INTERESTS

- **Languages:** Python, C
- **Developer Tools:** VS Code, Git, GitHub, Colab, Jupyter, APIs
- **Frameworks/Libraries:** NumPy, Pandas, Scikit-learn, TensorFlow, Transformers, RAG
- **Soft Skills:** Research, Problem-Solving, Communication
- **Coursework:** Machine Learning, Deep Learning, NLP, Data Structures, Operating Systems, Computer Architecture
- **Areas of Interest:** NLP, Generative AI, Deep Learning, Neural Networks, RAG Systems, LangChain

POSITIONS OF RESPONSIBILITY

- **Research Executive,** Astro Alliance Society *2024–Present*

Achievements

- **JEE Mains AIR 16047** Qualified with 99 percentile   *2024*

- **Participated in Bharatiya Antariksha Hackathon** Organized by ISRO   *2025*

- **Selected in Internal Hackathon of SIH** National Innovation Hackathon   *2025*