ANUJ KUMAR SINGH

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CAREER OBJECTIVE

Aspiring AI & Data Science student with expertise in Python, Machine Learning, and Web Development. Skilled in practical problem-solving through hands-on projects and seeking opportunities to contribute to impactful real-world applications.

SKILLS

Languages: Python, C, Core Java, JavaScript, HTML/CSS

Technologies:

- Machine Learning
- Deep Learning
- Prompt Engineering
- Natural Language Processing (NLP)
- Computer Vision (YOLO, OpenCV)

Frameworks: Flask, Bootstrap, Frontend (HTML/CSS/JS), Streamlit (for building AI apps)

Tools: GitHub, VS Code, Jupyter Notebook, Linux (Ubuntu), AWS EC2 (model deployment)

EDUCATION

- **Bachelor of Computer Applications (DS & AI)** ***CGPA: 8.12*** **Aug 2024 – May 2027**
  Gopal Narayan Singh University, Jamuhar
- **Higher Secondary School (12th)** ***Percentage: 74.6%*** **Sept 2022 – Jan 2024**
  Shershah College, Sasaram

PROJECTS

- **Automated Attendance System using Face recognition with Multi-Class Handling** **Feb 2025 – Apr 2025**
  Python, OpenCV, face_recognition, Flask, HTML, CSS, JS, Bootstrap, JSON
  - Implemented a secure login system using face recognition, eyeblink verification, and password authentication for students, teachers, and admins. Enabled real-time liveness detection and role-based access control.
  - Developed a timetable-driven attendance system with integrated camera control. Automatically starts attendance with web cameras or allows manual control on mobile devices. Classifies individuals as Teacher/Student/Unknown and verifies the correct teacher before marking student attendance, Reduced manual effort by 85% to 90%.
  - Designed user-friendly dashboards: students can view attendance records; teachers can start attendance, view/download attendance reports, access recorded sessions, and live stream classes; admins can manage teachers/students, upload timetables/subjects, and monitor live sessions across multiple classes.
- **Emotion and Sentiment Classification using NLP** **Jun 2025 – Jul 2025**
  Python, Pandas, Matplotlib, Seaborn, Wordcloud, Scikit-learn, TensorFlow, Keras
  - Built a complete NLP pipeline to classify text into 6 and 13 emotion categories and binary sentiments (positive/negative) using techniques like text cleaning, tokenization, stopword removal, TF-IDF vectorization, StandardScaler, and label encoding.
  - Trained and compared multiple ML models (Logistic Regression, KNN, SVM, Decision Tree, Random Forest, MLP) with ensemble learning and Grid Search optimization, then developed an LSTM-based deep learning model with EarlyStopping — achieving high accuracy across classes (e.g., Joy 99.4%, Sadness 97.4%, Anger 98%) and strong interpretability through WordCloud and Confusion Matrix visualizations.

ACHIEVEMENTS

- **1st Runner-Up, Technovate 1.0 – IBM Day 2025** **10 & 11 Feb 2025**
  - Honored by IBM and Cognitel at GNSU for creating a chatbot that provided practical, real-world solutions.
- **Senior Participant, Techphilia 8.0 Hackathon** - Amity University, Patna **22 Apr 2025**
  - Led a team to develop an AI-powered energy optimization system that predicts consumption patterns, minimizes energy waste, and promotes sustainability by providing actionable recommendations for efficient energy use.
- **Attend the IBM Immersion Program 2025 at the IBM BCS Building, Kolkata** **6 & 7 Feb 2025**
  - Explored AI, Frontend Development, and Data Visualization domains while gaining valuable industry insights

SOFT SKILLS

• Team Coordination • Strategic Thinking • Project Planning & Delivery • Curiosity and lifelong learning

CERTIFICATES

- **Utkranti - Catalyst Kaksha Program – Participant** - "Idea to Business Plan" organized by IIT Mandi Catalyst.
- **Front End Technologies – IBM Career Education Program** - Issued by IBMCEP (CognitiveClass.ai)