Mohammad Maroof

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Education

Pranveer Singh Institute of Technology, PSIT Kanpur **2022 − 2026**
B.Tech in Computer Science and Engineering *8.29 SGPA*

Sir Padampat Singhania Education Centre **2019 − 2021**
CBSE Class X & CBSE Class XII *91.2% and 95.2%*

Experience

Bracketworks.io **July, 2025 - November, 2025**
Summer Intern *Remote, Paid*
- Collaborated with the tech team to develop an AI-based tool that answered GA4 data queries using natural language.
- Improved skills in Python and Streamlit while working on real-time data and GPT integration.

Projects

Voice-Driven Sentiment Analysis with Intelligent Sarcasm Detection **GitHub Link**
- Python | Machine Learning | NLP
- Developed a speech-to-text conversion pipeline using machine learning models.
- Implemented a sentiment classification model (**positive, negative, neutral**) using supervised learning techniques.
- Designed a sarcasm detection model by analyzing contextual cues, tone, and speech patterns.

AI Agent Dashboard **GitHub Link | Live Link**
- Python | Streamlit | CSV | Google Sheets
- Engineered an **AI-powered dashboard** for monitoring datasets using Pattern Matching and Google Sheets API.
- Transform raw data into clear insights in seconds.

AI PDF Interpreter **GitHub Link**
- Python | OpenAI API | React
- Developed an AI-powered web application to extract, summarize, translate, and convert content from PDF files using OpenAI's GPT model.
- Implemented backend utilities for text summarization, translation, and bullet point extraction, supporting multiple languages.
- Built a scalable architecture with a React frontend and Python backend for seamless user experience and extensibility.

Realtime Chatting App **GitHub Link | Live Link**
- HTML | CSS | JavaScript | Node.js | WebSockets (Socket.IO)
- Designed a **real-time chat application** enabling instant messaging across multiple clients.
- WebSocket connections to handle multiple users.

Achievements

- Published a patent titled **"Voice-Driven Sentiment Analysis with Intelligent Sarcasm Detection"** using speech signals and NLP-based deep learning models. **Application No.** 202511046765
- Earned a prestigious 5-star rating in Problem-solving on HackerRank and solved 400+ leetcode problems.
- Secured 50th rank out of 1000+ participants in a college hackathon.

Technical Skills

Languages: Python, C++

Libraries & Frameworks: Pandas, NumPy, Matplotlib, Streamlit

Web & Backend Development: HTML, CSS, JavaScript, Node.js

AI/ML & Data Science: Machine Learning, Natural Language Processing

Databases: SQL

Developer Tools: Git, GitHub, VS Code, Google Collab

Certifications

- **Coursera (DeepLearning.AI):** Supervised Machine Learning: Regression and Classification
- **Udemy:** Python for Data Science and Machine Learning Bootcamp
- **Salesforce:** Salesforce AI with Agentforce Champion (39 Badges)
- **HackerRank:** Problem Solving Basic