

# Maanikka Mishra

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## PROFILE

**Dedicated Software Developer** with expertise in building scalable, efficient software solutions. Skilled in web frameworks, data analysis, and natural language processing, with a proven ability to solve complex problems. Committed to delivering high-quality, user-centric applications with measurable impact.

## EDUCATION

**Pranveer Singh Institute of Technology, Kanpur** 12/2022 – present | Kanpur, India  
*Bachelor of Technology in Computer Science and Engineering*  
CGPA: 8.2 (till fifth semester)

**Mariampur Senior Secondary School** 04/2021 – 03/2022 | Kanpur, India  
*Intermediate*  
Percentage: 85%

**Mariampur Senior Secondary School** 04/2019 – 03/2020 | Kanpur, India  
*High School*  
Percentage 90%

## PROJECTS

**NeuroVista: Revolutionizing Alzheimer's Detection with AI Precision** 03/2025 – present  
*AI | Deep Learning | Computer Vision | Healthcare Tech*

- Engineering an AI-powered platform for early Alzheimer's detection using multimodal data (MRI, cognitive assessments, behavioral cues).
- Designing gamified cognitive tests and implementing real-time facial/speech analytics for risk scoring.
- Developing a cloud-based system for doctor-patient collaboration and continuous cognitive monitoring.
- Building a responsive web/mobile interface using React.js, FastAPI, and Firebase.

**MANNMITRA: AI ChatBot for Sentiment Analysis and Mental Health Therapy** 10/2024 – 02/2025  
*Python | Flask | TensorFlow | Scikit-Learn | Docker | AWS*

- Developed a sentiment-aware chatbot for mental health support, achieving 95% accuracy in sentiment detection and reducing response time by 30%.
- Deployed on AWS with Docker, ensuring 99% uptime and scalability for 10,000+ concurrent users.
- Boosted user engagement by 20%, with 85% of users regularly tracking their emotional well-being.

**YouTube Comment Analyzer** 07/2024 – 11/2024  
*Python | Flask | NLTK | APIs | WordCloud*

- Built an analyzer that processed 50,000+ YouTube comments, extracting sentiment and engagement metrics.
- Integrated real-time data fetching via the YouTube API with a scalable Flask backend.
- Visualized insights through word clouds and sentiment charts, improving user engagement by 40%.

## TECHNICAL SKILLS

- Languages:** Python, JavaScript, Java, C
- Web Technologies:** HTML, CSS, React.js, FastAPI, Flask, Express.js
- APIs:** REST APIs, OpenAI API, Node.js
- AI/ML:** TensorFlow, PyTorch, Scikit-learn, NLTK, OpenCV
- Computer Vision:** MRI Analysis, Image Preprocessing, CNN, Facial/Speech Recognition
- Databases:** MySQL, PostgreSQL, Firebase
- DevOps:** Docker, Git, GitHub
- Cloud:** AWS, Firebase
- Tools & IDEs:** VS Code, Google Colab, Jupyter Notebook, Anaconda
- Operating Systems:** Windows, Linux
- Soft Skills:** Collaboration, Problem-Solving, Documentation, Public Speaking

## CERTIFICATIONS / ACHIEVEMENTS

- AWS Cloud Practitioner Essentials - AWS
- Salesforce AI Trailblazer Champion - *Salesforce Trailhead*
- Supervised Machine Learning: Regression and Classification - *Stanford Coursera*
- Python for Data Science, AI & Development - *IBM Coursera*
- The Complete Web Development Bootcamp - *Udemy*
- Additional Certifications from InfosysSpringboard and HackerRank
- Achieved 5-Star Ratings in Python and Problem Solving Skills on HackerRank
- Practiced and solved over 200+ coding problems on platforms like LeetCode, HackerRank, and others.