

Maanikka Mishra

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PROFILE

Dedicated Software Developer passionate about creating scalable, efficient, and user-focused solutions. Known for strong problem-solving skills, adaptability, flexibility and a commitment to delivering high-quality results in fast-paced environments.

EDUCATION

Pranveer Singh Institute of Technology, Kanpur 12/2022 – present | Kanpur, India
Bachelor of Technology in Computer Science and Engineering
CGPA: 8.3 (till sixth 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 12/2024 – 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

- 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, Java, C
- **Core CS:** Data Structures & Algorithms, Object-Oriented Programming (OOP), DBMS, Operating Systems, Computer Networks
- **Web Technologies:** HTML, CSS, JavaScript, React.js, Flask
- **AI/ML:** TensorFlow, PyTorch, Scikit-learn, NLTK, OpenCV
- **Computer Vision:** MRI Analysis, Image Preprocessing, Convolutional Neural Networks (CNN), Facial Recognition, Speech Recognition
- **Databases:** MySQL
- **Cloud & DevOps:** AWS (basic), Docker (basic)
- **Tools & Platforms:** GitHub, VS Code, Jupyter, Google Colab
- **Operating Systems:** Windows
- **Soft Skills:** Collaboration, Problem-Solving, Documentation, Public Speaking

CERTIFICATIONS / ACHIEVEMENTS

- AWS Cloud Practitioner Essentials – AWS (2023)
- Python for Data Science – IBM (Coursera)
- Web Development Bootcamp – Udemy
- Supervised Machine Learning – Stanford (Coursera)
- Salesforce AI Trailblazer Champion – Salesforce
- Additional Certifications – Infosys Springboard, HackerRank
- 5 Stars in Python & Problem Solving – HackerRank
- Solved 200+ coding problems on LeetCode and HackerRank