Mayank Kumar

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Education

RNS Institute of Technology, BE in Computer Science (AIML) Sept 2023 – Sept 2027

- GPA: 8.52/10.0 (Till 5th sem)
- **Relevant Coursework:** Data Structures, Algorithms, Artificial Intelligence, Object-Oriented Programming, Computer Organizations, OS, Applied Maths.

Experience

Artificial Intelligence Intern| AICTE Aug 2024 – Sept 2024

- Developed an interactive chatbot that responds to user inputs based on predefined rules. This project enhanced understanding of natural language processing and conversation flow.
- Developed a recommendation system that suggests items to users based on their preferences.
- Developed an AI agent using Python that plays the classic game of Tic-Tac-Toe against a human player.

Projects

Crowd Unified Risk Evaluation- AI-Based Disease Risk Assessment & Public Health Monitoring System

- Tools: Python, Scikit-learn, TensorFlow/Keras, Pandas, NumPy, OpenWeather API, Google Maps API, JavaScript
- Built AI model to predict 7-day disease outbreak risk using environmental data.
- Trained Random Forest, XG Boost, and LSTM models achieving 83% accuracy.
- Integrated OpenWeather and Google Maps APIs for real-time data analysis.

RakshaNet – AI-Based Deepfake Detection System

- Tools: Python, CNN-based Deep Learning (TensorFlow/PyTorch), OpenCV, React Native, Android Studio.
- Developed CNN-based deepfake detection system for identifying manipulated images and videos.
- Extracted facial artifacts using computer vision and image preprocessing techniques.
- Built React Native mobile app for real-time deepfake detection.

Skills

Languages: C++, C, Python, Java, JavaScript, HTML, CSS

Databases: MySQL, MongoDB

Platforms: Visual Studio Code, Android Studio, Jupyter Notebook, GitHub

Frameworks & SDKs: React Native, Android SDK.

APIs & Services: OpenWeather API, Google Maps API.

Build & Development Tools: Gradle, Metro Bundler.

Operating Systems: Windows, Linux(Ubuntu)

Achievements

Public Speaking and Presentations: Delivered several presentations to audiences of 50+ students at college orientations and NSS events. Recognized as "Best Speaker" in 3 departmental events for clear communication and audience interaction techniques.

Finalist (3rd Indian Symposium on Cybersecurity and Data Science (ISCADS 2026)): Presented the paper “Disease Risk Assessment Using Climatic Indicators: An AI-Based Approach for Public Health Monitoring” at Manipal Academy of Higher Education (MAHE), Bengaluru, showcasing an AI-based disease risk prediction system integrating climatic and public health datasets for proactive surveillance.

Ranked in Top 10% of candidates in both CBSE Class X and XII board examinations.