Shoryakumar Mishra

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Education

S.R.M Institute of Science and Technology, B.Tech in Computer Science(Core) August 2023 - Present
- GPA: 8.96

Skills & Competencies

- **Programming & Scripting:** Python, Java, C++, SQL
- **AI/ML Frameworks:** Scikit-learn, TensorFlow, Keras, NumPy, Pandas
- **Tools & Platforms:** Jupyter Notebook, Google Colab, MySQL, Power BI, Git
- **Data Science Skills:** Data preprocessing, Model building, Feature engineering, Data visualization
- **Soft Skills:** Team leadership, Problem-solving, Effective communication, Time management

Experience

Committee Head, Aaruush August 2024 - Present
- Coordinated key events at Aaruush, ensuring efficient planning and smooth execution.
- Improved event logistics, streamlining processes to enhance overall efficiency.
- Collaborated with multiple teams to align goals and deliver a cohesive event experience.

Associate Head (Content), Placfv's, Chennai March 2024 - Present
- Led and coordinated team efforts to streamline placement-related activities effectively.
- Approved and enhanced official emails, event scripts, and HR communications for clarity and impact.
- Engaged with higher officials and HR to ensure seamless coordination and execution of placement processes.

Projects

HealthEase - Hospital Management System
- Optimized hospital workflows with real-time queue management, AI-powered telemedicine, and live bed availability tracking for reduced patient wait times and improved care access.
- Built city-wide hospital discovery and integrated inventory systems to streamline emergency responses and enhance healthcare resource visibility.
- Tech stack: Python, React, Firebase | AI/ML: NLP for virtual consults, predictive analytics for demand forecasting, and computer vision for bed status validation.

AI Lung Cancer Detector
- Built an image-based lung cancer detection system that identifies cancer presence and stages using deep learning on cellular images.
- Designed a CNN model with high accuracy, capable of classifying images into benign, malignant (stage-wise), or normal categories.
- Utilized TensorFlow, Keras, OpenCV, NumPy, and Scikit-learn for image preprocessing, model training, and multi-stage cancer classification.

AI Medical Analysis
- Developed an interactive AI-powered tool that answers user health queries using real-time medical data and Retrieval-Augmented Generation (RAG) pipelines.
- Integrated Groq LLMs with LangChain, HuggingFace embeddings, and Chroma vector stores to provide context-aware, evidence-backed medical responses.
- Tools & Tech: Python, Pandas, Gradio, LangChain, TensorFlow, HuggingFace, ChromaDB, Groq LLM | AI/ML: Embeddings, LLM-based reasoning, and medical text inference.

Certifications

Artificial intelligence primer certification (Infosys Springboard)
Oracle Certified Foundations Associate
Introduction to Artificial Intelligence
SIH (SMART INDIA HACKATHON)
AI/ML Virtual AICTE Internship (Google)