Kanishak Gupta

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Career Objective

With my ability to **quickly adapt** adapt to new environments and challenges, I aim to **drive innovation** and **solve complex problems** utilize my expertise in **data science**, **machine learning**, and **IoT development**. I am eager to contribute to the success of the organization while continuously growing and expanding my skillset.

Education

Vellore Institute of Technology, Vellore	2021 - 2025
B.Tech in Computer Science and Engineering (specialization in IoT)	*8 CGPA*
St. Xavier (Barnai, Jammu)	2020 - 2021
Higher Secondary - PCM (JKBOSE)	*92%*
MHAC Nagbani	2014 - 2019
Secondary School (CBSE)	*85%*

Work Experience

Mount Shivalik Industries (MSLI) — April - July 2024
Project Intern — *Link*

- Optimized supply chain, reducing costs by 15% through data-driven recommendations.
- Developed predictive models for inventory forecasting, improving allocation by 20%.
- Collaborated cross-functionally, increasing productivity by 18% through process optimization.

Atsuya Technologies — August 2023
Project Intern — *Link*

- Reduced error rates by 25% in a cylinder detection model, enhancing system accuracy.
- Optimized model processing speed by 10%.
- Tested cross-platform compatibility, ensuring scalability and robustness across devices.

Projects

Smart City IoT Projects — 2024
Arduino, NodeMCU, Firebase

- Designed IoT systems for air quality, water, and healthcare management using Arduino and NodeMCU.
- Integrated Firebase for real-time data synchronization, enabling optimized urban planning.

AI Mock Interview Full Stack Application with AI Resume Builder — 2024
AI Mock Interview Platform

- A full-stack AI mock interview platform.
- Integrated AI-powered resume builder, improving user engagement by 40% and satisfaction by 25%.

Research

Anomaly Detection in IoT Attacks Using Deep Learning — 2023
Deep Learning, TensorFlow, Contiki

- Created deep learning-based anomaly detection system for IoT attacks using Contiki and TensorFlow.
- Optimized model for Hello Flood attacks with 93% accuracy, enhancing IoT security.

Skills

- **Programming Languages**: C++, Java, SQL, R
- **Machine Learning**: Scikit-learn, TensorFlow, Pandas, NumPy
- **Tools**: Git, Docker, VS Code, Jupyter, Eclipse, MATLAB, Linux, Data Visualization
- **Databases**: MySQL, Firebase
- **Web Development**: HTML, CSS, JavaScript
- **Software Development**: Agile, Scrum

Extracurricular Activities

- Active member of the university's tech club, organizing hackathons and coding competitions.
- Passionate about bodybuilding, regularly participating in fitness challenges.