Aneesh Jain

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Summary

Ambitious and results-driven B.Tech student specializing in Machine Learning, AI, and Data Science. Proven ability to leverage Python, TensorFlow, and Keras to develop impactful AI solutions, including a 30% energy-saving smart lighting system and a 25% efficiency-improving traffic management system. Recognized for leadership in hackathons and innovative problem-solving. Eager to contribute technical expertise and analytical skills to drive data-driven decision-making and efficiency in dynamic environments. Committed to continuous learning and delivering high-impact solutions.

Education

SAGE University Bhopal, MP
B.Tech CSE (Hons) in Artificial Intelligence and Machine Learning *Dec 2022 – May 2026*

Skills

Technical Skills

- **Programming Languages:** Proficient in Python, Java, and C++, with experience in software development and machine learning applications
- **Machine Learning Frameworks:** Hands-on experience with TensorFlow, Keras, and CNN for building and deploying machine learning models.
- **Data Analysis & Visualization:** Skilled in using Excel for data visualization and analysis, with expertise in libraries such as Matplotlib, Seaborn, and Pandas to create insightful visualizations and conduct data analysis.
- **Computer Vision:** Proficient in OpenCV for image processing and real-time object detection.
- **IoT Technologies:** Familiar with integrating IoT devices using Raspberry Pi and custom PCB designs for smart home applications.
- **Web Development:** Knowledgeable in HTML, CSS, and JavaScript for creating dynamic web applications.

Soft Skills

- **Effective Communication:** Ability to clearly articulate complex technical concepts to diverse audiences.
- **Team Leadership:** Proven success in leading teams to achieve project goals under tight deadlines.
- **Analytical Problem Solving:** Strong analytical skills with a focus on identifying challenges and developing innovative solutions.
- **Adaptability:** Quick to learn new technologies and methodologies in fast-paced environments.

Projects

FloSens
AI-Based Traffic Management System *Python, TensorFlow, Keras, OpenCV, CNN, Blynk*

- Designed an advanced traffic management system utilizing AI and computer vision, improving traffic flow efficiency by 25% during peak hours.
- Employed stereo vision and structured light technologies to analyze road conditions continuously, adjusting traffic signal timers based on real-time traffic density, resulting in a 20% reduction in average wait times.
- Integrated features for traffic rule violation detection, capturing license plates of violatorsand extracting driver details from a government database to issue e-challans; enhancedprocess efficiency by reducing manual intervention by 40%.
- Implemented accident detection capabilities that notify nearby healthcare providers and police stations within seconds, improving emergency response times by 30%
- Developed functionality for recognizing VIP vehicles, ambulances, and processions toclear specific lanes, displaying warnings on LCDs above traffic signals to inform drivers of emergencies.

LightPulse
Smart Lighting Environment *Python, Raspberry Pi, SQL, Telegram API, Postman, dedicated PCB*

- Engineered an innovative smart lighting system based on daylight harvesting principles, achieving a 30% reduction in energy consumption while enhancing indoor comfort through adaptive brightness control
- Implemented features such as automatic and manual brightness control, programmable timers for scheduled lighting, and automatic cutoff in response to excessive ambient light.
- Enabled worldwide control of lighting through a dedicated Telegram bot, enhancing user security by restricting access to registered chat IDs.
- Incorporated live data monitoring to display real-time readings of ambient brightness and power consumption in both numerical and graphical formats

Awards and Achievements

Best Innovator
SAGE University, Bhopal — 2024
Recognized for outstanding innovative contributions and creativity in projects and initiatives.

SISTec Innovation Hackathon 2.0
SISTec, Ratibad — 2024
Led the team to achieve Top 5 out of 75 teams for developing a primitive version of LightPulse.

LakeCity Hack
Jagran Lakecity University, Bhopal — 2024
Led the team to 1st Place among over 60 teams; created an advanced version of LightPulse with a significant point margin.

SAGE Ideathon
SAGE University, Bhopal — 2024
Led the team to secure 2nd Place while developing a refined version of LightPulse.

Codefiesta 3.0
Global Institute of Technology, Jaipur — 2024
Led the team to achieve 4th Place out of over 235 teams and was awarded ”Technically Most Sound Team” for designing a multipurpose self-3D-printed drone, capable of applications in surveillance, agriculture, disaster management, and topographical mapping.