

# LALITH KISHORE V S

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## SUMMARY

As a driven and ambitious Machine Learning Engineer, I bring a solid grasp of AI and ML fundamentals, along with a passion for crafting creative solutions. Through hands-on projects and collaborations, I've refined my expertise in designing, training, and deploying machine learning models for various industries. I'm excited to join a forward-thinking team, where I can apply my technical skills in Python, TensorFlow, scikit-learn, and proficient in SQL, Excel, and data visualization tools to drive data-driven insights and deliver meaningful results.

## PROJECT EXPERIENCE

- Predictive Maintenance for Fleet Management Using AI** Aug 2024  
*Technologies: Python, TensorFlow, LSTM* Vijayawada, India
  - Data Analysis:** Analyzed vehicle data (mileage, fuel, engine speed, oil pressure, fault codes) to identify maintenance patterns.
  - Forecasting Model:** Built an LSTM-based model for time-series prediction, enabling proactive maintenance scheduling.
  - Operational Impact:** Improved fleet reliability by forecasting maintenance needs and preventing breakdowns.
- Predicting Agricultural Commodity Prices** Dec 2024  
*Technologies: Python, LSTM, Data Visualization* Raipur, India
  - Data Integration:** Integrated historical price trends, weather patterns, and market demand to improve prediction accuracy.
  - AI Modeling:** Developed an LSTM model for precise agricultural price forecasting.
  - Decision Support:** Built a web platform for farmers and stakeholders to make informed financial decisions.
- Autonomous Search and Rescue Drone** Nov 2024 – Jan 2025  
*Technologies: OpenCV, YOLOv5, TensorFlow/PyTorch, MAVLink, LiDAR* Hyderabad, India
  - System Development:** Designed an AI-powered drone integrating YOLO object detection, LiDAR SLAM, and GPS for autonomous rescue missions.
  - Autonomous Response:** Enabled detection, approach, high-res imaging, and real-time transmission of GPS and video data to rescue teams.

## CERTIFICATIONS AND ACHIEVEMENTS

- Professional Certifications:**
  - Certified Data Analytics with Python
  - Certified Python for Data Science (NPTEL)
  - Certified Generative AI Foundation Models and Platforms
  - Machine Learning for All (University of London)
- Achievements:**
  - National Level Hackathon 1.0 Champion:** Secured 1st prize and 30,000 cash award in a 24-hour coding competition, demonstrating expertise in coding and problem-solving.
  - NAUONMESH 2.0 Hackathon:** Ranked among Top 15 performers and received Certificate of Participation, showcasing expertise in coding and problem-solving.
  - National Level Winner Award – Annual Day Recognition:** Recognized at the national level during the Annual Day celebration for exceptional innovation and technical excellence, and awarded a cash prize of 3,000 for contributing impactful solutions in the field of technology.

## TECHNICAL SKILLS

- Languages:** Python , SQL , Java , C
- Tools and Technologies:**
  - Frameworks:** Pandas, NumPy, Matplotlib, TensorFlow, OpenCV, Scikit-learn
  - Visualization Tools:** MS Excel, Tableau , Power BI

## EDUCATION

- K.S. Rangasamy College of Technology, Tiruchengode** Tamil Nadu, India  
*B.E. in Artificial Intelligence and Machine Learning; CGPA: 7.6* 2022 – 2026
- Notre Dame of Holy Cross School, Salem** Tamil Nadu, India  
*CBSE Class XII; Percentage: 75%* 2022