LOTTAPALLI SANTHOSH KUMAR

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Ramapuram, Telangana - 508246

SYNOPSIS

B.Tech student focus on Artificial Intelligence and Machine Learning. Possessing proficiency in Java, Python and Problem solving, with proven experience in projects such as Fetal Health Prediction and a Web Development internship. Eager to apply academic knowledge in practical applications and contribute to innovative AI-driven projects. Driven by a strong interest in Data Science and Software Engineering, with a focus on advancing technology and creating transformative solutions in the AI and Machine Learning field.

EDUCATION

• **Saveetha School of Engineering** — *Sep 2021 - May 2025*
Bachelors of Technology in Artificial Intelligence and Machine Learning — Chennai, India
  ◦ GPA: 8.50/10.00

• **Narayana Junior College** — *Jun 2019 - Apr 2021*
Higher Secondary Education — Hyderabad, India
  ◦ Grade: 97.0%

• **Sri Chaitanya Techno School** — *Apr 2019*
Secondary School Education — Kodad, India
  ◦ GPA: 10/10

PROJECTS

• **FETAL HEALTH AI: [Machine Learning Approaches for Predicting Fetal Health Parameters]** — *Feb 2024 - May 2024*
Tools: Python | Machine Learning — Reference
  ◦ Developed a predictive model for assessing fetal health to enhance early diagnosis and intervention.
  ◦ Implemented machine learning algorithms such as Random Forest and Support Vector Machines to improve prediction accuracy, achieving a 90% accuracy rate in identifying at-risk pregnancies.
  ◦ Achieved a reduction in average prediction errors by approximately 20%
  ◦ Applied data preprocessing techniques and feature engineering to analyze prenatal ultrasound images and medical records, identifying key indicators of fetal distress.

• **SMART WATER: [IoT-driven Irrigation Management System for efficient water usage]** — *Jul 2022*
Tools: Internet of Things
  ◦ Developed a smart water management system to optimize water usage and detect leaks in real-time.
  ◦ Implemented IoT sensors and data analytics to monitor water levels and flow rates, achieving a 30% reduction in water waste and a 20% increase in system efficiency through timely alerts and automated controls.
  ◦ Created a dashboard for remote monitoring and management, ensuring easy access to real-time data and system alerts for users and administrators.

SKILLS

• **Programming Languages:** Java, Python, C, C++, SQL, Data Algorithm and Structure
• **Web Technologies:** HTML, CSS, JavaScript
• **Data Science & Machine Learning:** Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch
• **Specialized Area:** Natural Language Processing, Computer Vision, Reinforcement Learning
• **Mathematical & Statistical Tools:** R, MATLAB, Excel, SPSS
• **Soft Skills:** Effective written and verbal communication, Team Collaboration.
• **Problem Solving:** Critical thinking and Analyzing complex issues and implementing effective solutions.
• **Research Skills:** Data Analysis, Statistical Modeling, Literature Review, Data Visualization, Hypothesis Testing.

CERTIFICATIONS

• **Oracle Cloud Infrastructure** — *Aug 2024*
Professional Certificate in Oracle Cloud Infrastructure 2024 Generative AI. — Certificate

• **C++ Programming** — *Aug 2024*
Certificate from Udemy on completion of C++ Programming Course (Basic to Expert). — Certificate

• **Data Science Basic to Advanced** — *Dec 2023*
Certified by SETWIN, Telangana Government in Data Science (Basic to Advanced).

ACHIEVEMENTS & INTERESTS

Participated in and completed Web Development internship program from InternPE.
Presented Research papers on Fetal Health Prediction using AI at National Conference.
Interests: Reading Books, Browsing Internet, Travelling, Coding, Cooking, Netflix.