SUMANTH KUMAR LINGABATHINI

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PROFESSIONAL SUMMARY

Software Engineer at Tata Consultancy Services with expertise in Python, Cloud applications, and website design. Pursuing a master's in computer science, focusing on robotics and software development. Passionate about leveraging technical skills to contribute to innovative projects and drive impactful solutions in the tech industry.

EDUCATION

University of Kansas (KU) Jan 2026
Master of Science in Computer Science GPA: 3.95/4.0

Guru Nanak University, India Dec 2020
Bachelor of Technology, Electrical and Electronics CGPA:3.76/4.0

SKILLS

***Analytical Tools**:* Power BI, Tableau, Advanced Excel, Eclipse, MATLAB, Simulink, Drupal, Hp ALM, Git, Jira
Cloud Technologies: Amazon Web Services, Docker, Kubernetes, Terraform
***Programming Languages**: Python,* SQL, HTML, CSS, C, Java (Normal)
***Database**:* MySQL, Amazon RDS, DynamoDB
Languages: English(proficient), Telugu (Native), Hindi (Fluent).

PROFESSIONAL EXPERIENCE

National Center for Construction Safety- Lawrence, KS Feb 2024 – Present
Research Fellow/Office Assistant
Robotic Paver Project

- Developed and maintained a Drupal website using HTML and CSS, hosted on Azure cloud services.
- Implemented robotic paving solutions with microcontrollers, optimizing costs and efficiency.
- Applied Agile methodologies to manage projects, enhancing team organization and process efficiency.
- Coordinated client communications and document distribution, achieving a 15% improvement in project delivery processes. Designed the web site for the Construction Safety Conference 2024

Tata Consultancy Services - Hyderabad, India Apr 2021 – Dec 2023
Associate Professional Software Engineer

- Developed and deployed cloud-based applications using python, Java frameworks, RESTful APIs, and HTML/CSS/JavaScript front-end technologies.
- Implemented unit and integration tests using Java, ensuring 98% code coverage and improving application reliability. Prepared comprehensive test procedures, scenarios, and data for test scripts.
- Designed and documented Standard Operating Procedures (SOPs) for efficient team workflows, training six new team members in cloud engineering best practices.

PROJECTS

Diabetes Prediction System:

- Developed a machine learning-based diabetes prediction model using SVM, Logistic Regression, Gradient Boosting, and FNN, achieving 84.50% accuracy.
- Utilized data preprocessing techniques, SMOTE for class balancing, and advanced data visualization for improved model performance.

Counterfeit-IC-detection-system

- Developed a counterfeit IC detection system using a MobileNetV2-based deep learning model. Implemented image preprocessing, class balancing, and model fine-tuning for improved accuracy.
- Optimized training with early stopping, learning rate scheduling, and model checkpointing. Evaluated performance using accuracy score and confusion matrix.

ACCOMPLISHMENTS

- Received an appreciation note from the client during an official visit for outstanding performance and dedication.
- Awarded "Best Team" recognition four times for demonstrating exceptional teamwork and consistently delivering projects ahead of schedule.