SATHWICK KIRAN M S

Contact: +1 (716) 359-1432 | sathwickkiran04@gmail.com | LinkedIn

EDUCATION

University at Buffalo – State University of New York — Buffalo, New York, US
Master of Science in Engineering Science – Data Science — Aug 2024 – Dec 2025

B.M.S. College of Engineering — Bengaluru, Karnataka, India
Bachelor of Technology in Computer Science and Engineering — Jul 2018 – May 2022
GPA – 3.2

WORK EXPERIENCE

Sony India Software Centre | Software Engineer| Bengaluru, India — Aug 2022 – Apr 2024

- Automated data collection and cleaning processes, reducing manual effort by 25%.
- Wrote and optimized SQL queries for extracting and analysing data from relational databases.
- Deployed GitLab projects on AWS Cloud, enhancing system efficiency and resilience.
- Developed a central platform for internal applications, streamlining access across the organization.
- Integrated GitLab with Jira, cutting task processing time by 25% and boosting team productivity.
- Created and implemented Python and Shell linters to automate code quality checks.
- Led weekly stand-up meetings, resolving task blockers and ensuring team alignment.
- Achieved 3rd place in Sony's "First Challenge" for developing a "Document Automation" platform that streamlined document storage and retrieval on GitLab Wiki, reducing search time by 45%. Additionally, advanced to the finals in IIT Chennai's "Capture the Flag" competition.

LMARKS Automation | Software Developer Intern **|** Bengaluru, India — Feb 2022 – May 2022

- Oversaw website maintenance by implementing and removing features as necessary.
- Integrated IoT devices with garages and curtains using Python.
- Diagnosed and tested both the application and website to ensure reliability and avoid malfunctions.

PROJECTS

Osteoporosis Risk Prediction using Statistical and Machine Learning Methods

- Developed a machine learning tool to predict osteoporosis risk by analysing patient data like age, hormonal changes, nutrition, and physical activity, uncovering key risk factors and patterns using a dataset from Kaggle.
- Implemented and evaluated multiple ML models, including **Random Forest, Decision Tree, and Logistic Regression,** achieving a predictive accuracy of ~83%, with plans for further optimization to enhance model performance.
- Conducted data preprocessing and feature engineering, handling missing data, outliers, and class imbalances, and transforming categorical data for improved model accuracy.
- Performed **exploratory data analysis (EDA)** using visualizations like histograms and count plots to uncover key predictors and insights into osteoporosis risk.
- Collaborated on a group project for EAS 508: Statistical Learning and Data Mining-I, presenting findings under the guidance of Professor Jianzhen Liu.

Indoor Navigation Using Augmented Reality ↗

- Created an application that gives out Indoor Navigation using Augmented Reality.
- Developed an indoor navigation app using Augmented Reality, utilizing Unity and LiDAR for precise campus mapping.
- Implemented Dijkstra's algorithm to calculate the shortest paths, ensuring 100% accurate navigation.
- Stored indoor maps on AWS Cloud for scalability and easy access.
- Saved students significant time navigating the campus with the app.
- The project was nominated for the Best Final Project award.

TECHNICAL SKILLS

Certifications: AWS Cloud Practitioner, CompTIA, Python Programming, Gitlab, Certification in Cybersecurity from University of Maryland, IBM Data Science Certification, Phishing and Whaling, Essential Learning, Linux CLI.
Programming: Python, R, SQL,Machine Learning, Terraform, C++, Shell Scripting, AWS, Azure, Yaml
Software/Technology: MATLAB, PowerBI, Gitlab, CI/CD, Dockers, Kubernetes
Languages: English (Fluent), Kannada(Native/Bilingual), Hindi(Bilingual)