SAI SRAVYA HANUMANTHAKARI

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# SUMMARY

I am a passionate Information Technology graduate with hands-on experience in app and AIOT research, and data sciences. My journey includes developing innovative mobile applications and implementing AI algorithms in manufacturing. I excel in leveraging emerging technologies to solve real-world problems and am adept at working in dynamic environments that challenge me to push boundaries. I aim to continue growing my expertise in tech and contribute to impactful projects in the industry.

# EDUCATION

* Masters in Information Technology, Arizona State University 2024 – present
* Bachelors in Information Science and Engineering, NMIT (CGPA – 3.5/4) 2020 – 2024

Coursework: Data Structures & algorithms, Operating Systems, Database Management systems, Linux, Object Oriented Programming, Machine Learning, Exploratory Data Analysis, Statistics with Data Science, Neural networks and Deep Learning.

**SKILLS**

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| * Languages: Python, Java, SQL, NoSQL, C++, C, JavaScript, R * IDE’s: Eclipse, Google Colab, Jupyter Notebook, PyCharm * Database: MySQL, MongoDB, Oracle, Firebase | * Build/Other tools: FlutterFlow, Android Studio, PowerBI, Tableau * Methodology: SDLC, Agile, Scrum, Kanban * Version Control Tools: Git, GitHub * Cloud: AWS |

# WORK EXPERIENCE

# ZIPPY: App Developer Jan’24 – Present

* Developed a comprehensive mobile application using FlutterFlow and Dart language for Zippy, a startup focused on enhancing user experiences in market exploration using guides. Designed and implemented features, including guide profiles, market navigation, user wallet integration, and video-call functionality.
* Implemented a social media-inspired feed feature within the app, enabling guides to post updates and engage with users, similar to Instagram's feed functionality.

# UNISYS GLOBAL SERVICES: Student Research Assistant Jun’23 - Dec’23

* Implemented AI algorithms on real-time data collected by IoT sensors for the project "Unleashing manufacturing efficiency by breaking bottlenecks with AIOT". Utilized XgBoost algorithm and Raspberry Pi IoT sensors to analyze and process data.
* Collaborated with mentors from Unisys company to plan and execute project objectives.
* Generated alert points by predicting the probability of alerts, contributing to proactive maintenance strategies.

# PROJECTS

**Unleashing Manufacturing efficiency by breaking bottlenecks with AIOT**

* Developed and trained an AI model using the XGBoost algorithm to predict machine failures by analyzing real-time live data collected from IoT sensors.
* The AI model provided actionable suggestions and identified potential failure types, enabling proactive maintenance strategies that minimized downtime and enhanced manufacturing efficiency.
* Collaborating Successfully executed the project in collaboration with Unisys Global Services, demonstrating the power of integrating AI with IoT to break bottlenecks and optimize manufacturing processes.

# Cricket World Cup Data Analysis

* Data was collected through web scrapping from the ESPNcricinfo website, then Data cleaning and Data transformation in Python Pandas. Data transformation in Power Query, Data modeling, and building parameters using DAX.
* Built a dashboard in PowerBI, Collected insights from the dashboard, and selected the final best 11 players

# RESEARCH WORK

# Single image haze removal using radiance reflectance minimization and k-means clustering IJRASET, 2023

• The mitigation of haze is crucial in preventing traffic accidents when traveling. This study presents a novel photo haze removal approach by optimizing radiance and reflectance using k-means and fuzzy c-mean (FCM) clustering algorithms. Consequently, the outcome is characterized by pictures that exhibit evenly distributed illumination and the absence of atmospheric haze. [link](https://www.ijraset.com/best-journal/single-image-haze-removal-with-radiance-reflectance-minimization-using-illuminated-optimization-and-kmeans-clustering)