K S ARAVINDA KASHYAP

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Education

Siddaganga Institute of Technology **2019 - 2023**
B.E in Information Science & Engineering *9.32/10 CGPA*

Work Experience

Shell plc **August 2023 – Present**
Associate Software Engineer

- Successfully developed and implemented robust data pipelines using Azure Data Factory, leveraging Azure Functions, Azure Key Vault, and Azure Storage to ensure efficient data flow and security.
- Designed and implemented a highly effective automated file mover solution using React.js and Azure Data Factory/Azure SQL, resulting in significant annual cost savings of 1.5 million dollars and a dramatic reduction in project development time from 3 months to 1 week for each interface.
- Contributed to the development of a user-friendly cost estimator for Azure Data Factory using Azure PowerApps, leading to estimated savings of 375 hours of employee time per year through this initiative
- Developed an innovative PowerApps application designed to match company employees traveling to the same destination, promoting safety, environmental sustainability, and cost savings through shared transportation options. This application was highlighted at the EVP level of the Shell Marketplace.
- Demonstrated proficiency in a wide range of Azure services, including Azure DataBricks, PowerBI Reports, Azure Logic Apps, Azure PowerApps, and Azure Integration Services.

ISRO - Indian Space Research Organization **April 2023 – June 2023**
Software Development Intern

- Designed and developed a web-based application for active monitoring and management of MEOSAR system operations at ISTRAC-ISRO, which displays the real-time sensor data from the satellite along with the time of acquisition and departure which is specified by the respective antennas
- Created a two-way data transmission channel employing socket programming techniques, in order to communicate effectively with the antenna systems.
- Utilized the latest technologies such as React JS, and Node JS, as well as restrictive custom APIs, which ensured a fast, multi-layer secure, and scalable system.

Continental AG **April 2022 – March 2023**
Software Development Intern

- Developed an interactive web application that enables HR to benchmark employee skills against market standards and assign upskilling courses with automated skill improvement tracking.
- Also created an interface for the employees to view and track their skill progress, access courses, and see an organizational chart for clearer team structures.
- Migrated manual Excel-based data to our software and on-boarded the tool for 2000+ employees in the Continental AG Bangalore branch.

Indian Institute of Technology, Delhi **April 2022 – December 2022**
Research Assistant

- Worked on new methods for enhancing image processing using the Manifold Regularization framework. Particularly, focused on upscaling images using Super Resolution by restoring the pixel values to the image's underlying manifold.
- Contributed to the algorithmic implementation of custom approaches based on LapRLS and LapSVM, which enhanced the model prediction and generalization
- Carried out algorithm experimental validation on the obtained results within the context of the image enhancement and signal processing research areas.
- Participated in research activities organized by the MISN group and aided in the development and implementation of computational techniques and their application in machine learning.

Projects

Personal Portfolio **ksaravindakashyap.in**

- A Explore a comprehensive overview of my work and accomplishments since the beginning of my undergraduate studies, including detailed project descriptions, insights into my hobbies and interests, relevant certifications, notable achievements, and thought-provoking blogs. Visit the link to learn more about my journey and the work I am passionate about.

Flock AI **Flock.ai**

- Flock is an AI-powered platform that helps brands create customized models reflecting their unique aesthetic and customer demographics.
- Contributed to UI and website development using React, designing multi-functional interfaces for mobile and web platforms to enhance user experience and brand alignment.

Lung Cancer Detection Using Convolutional Neural Networks (CNN)

- Employing TensorFlow and Keras developed a deep learning architecture to classify histopathological images of lung cancer into healthy, adenocarcinoma and squamous cell carcinoma classes.
- Improved model performance with Batch Normalization and Dropout with image pre-processing and array work done using OpenCV and NumPy respectively.
- High-performance metrics in detecting cancerous cells were recorded spanning a variety of tests using a Kaggle lung cancer dataset with results presented in unique and illustrative formats through the Matplotlib library.

MediSync: An IoT and ML-powered medication adherence solution **Research Paper Link**

- Designed and implemented an IoT-based smart medication pill-box which consists of nano cameras to identify and classify drug tablets with YOLOv4, and track treatment routines, raise alert levels for low drug levels and adherence.
- Developed an approach to notify the patient or their primary contacts via text or email at a scheduled time if the visible dose of medication has not been taken, as displayed on the pillbox.
- Attained efficiency of 97 percent in real-time monitoring; published in the proceedings of the 2023 7th International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS).

Technical Skills

Languages: Python, Java, C++, JavaScript
Front-end: ReactJs, TailwindCSS, HTML, CSS, Bootstrap
Back-end: PHP, Node.js, Express.js, MySQL, Azure SQL, NoSQL, MongoDB, Firebase
Cloud Technologies: Azure Data Factory, Azure Functions, Azure Databricks, Azure PoweApps, Azure Storage, Azure Key-vault, PowerBi
Machine learning: Supervised learning, Manifold Regularization, Deep Learning

Honors and Awards

- Awarded for achieving the highest SGPA in the second year of my undergraduate program, with a score of 9.52/10, in recognition of outstanding academic performance.
- Awarded Best Mini Project in my undergraduate program for the academic year 2022, with the project titled ”Medication Adherence Monitoring Using IoT, and Cloud.”
- As a result of successfully completing a stake project during my first year at Shell Plc, I was awarded a letter of recognition and appreciation by IDT Manager Eakbal.

Leadership and Activities

President/Head of DeCoders Programming Club

- Led the team in organizing a flagship week-long event, college-wide hackathons, and workshops on web development and problem-solving, working closely with co-heads to make key decisions while promoting a collaborative environment. Conducted interviews to recruit new members, ensuring a strong, skilled team. Mentorship programs and technical events fostered hands-on learning and industry-relevant skills for students across the college.

Executive Board Member, IEEE Student Club

- Assisted in organizing club events, supporting technical development, and networking opportunities for students.