SAUMITRA PATHAK

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EDUCATION

Vellore Institute of Technology   Vellore, Tamil Nadu, India
Bachelor of Technology in Computer Science and Engineering, 8.85/10 CGPA   *Jul. 2019 – Jul 2023*

Shrishti Schools   Vellore, Tamil Nadu, India
Science with Computer Science, 86.8 % Higher Secondary   *Apr. 2017 – May 2019*

EXPERIENCE

Research and Development Intern   Jan 2023 – July 2023
Hewlett Packard Enterprise   *Bengaluru, Karnataka, India*

- During my internship with the HPC Integrated System Testing Department, I worked on automating OS installations for HPE SuperDome Flex servers in the Seamless Beta OS Enablement Solution project.
- Built a streamlined web app using **React.js** and **Express.js** to facilitate the installation process. Integrated Python Scripts with **Jenkins**, reducing **Linux** installation time by **56%** and **Windows** installation time by **46.7%**.
- Optimized the process further by utilizing **QCOW2 Images** and **Ironic Servers**. Deployment status data was efficiently stored in **Couchbase** buckets, ensuring easy access and monitoring.
- Gained hands-on experience in **Web Development**, **Python Scripting**, **Linux**, and **Jenkins** integration, contributing to enhanced system efficiency and improved user experience.

PROJECTS

UrbanHabitats | *JavaScript, MERN Stack* | [Source Code] | [Demo]   July 2023 - Aug 2023

- A responsive and user-friendly website developed using the **MERN Stack**, showcasing real estate properties.
- Leveraged modern UI/UX design using **React.js**, to craft an aesthetic and intuitive user interface.
- Implemented streamlined state management and data fetching techniques with **Express.js** and **Node.js.**
- Integrated **Auth0** authentication and harnessed **MongoDB** as the **NoSQL** Database.

Omnisc.io | *JavaScript, React.js, Express.js, Node.js* | [Source Code] | [Demo]   June 2023

- Omnisc.io is a web app developed with **React.js**, **Express.js**, and **Node.js** for a seamless user experience.
- Implemented using **OpenAI API** for ChatGPT replication, delivering a seamless user interface.
- Enabled instant usage without login requirements for enhanced accessibility. Completely Responsive Website

K Dominant Colors | *Python* | [Source Code]   June 2022

- This project extracts the most dominant 'K' colours using **K-Means Clustering** implemented using **Python**.
- The objective of this project is Image Segmentation. Segmentation partitions an image into regions having similar visual appearances corresponding to parts of objects.
- This idea of Image Segmentation could be used in Color Palette Generation, Color Compression and Image Analysis and Visualization.

TECHNICAL SKILLS

Languages: JavaScript, C++, Python, Java, C, SQL, HTML, CSS
Frameworks and Libraries: React.js, Node.js, Express.js, TailWind, Numpy, Pandas, MatPlotLib, Seaborn, Plotly
Developer Tools: Git, GitHub, AWS, Docker, MongoDB, Couchbase, Postman, VS Code, Jupyter Notebook

CERTIFICATIONS AND ACHIEVEMENTS

- **Amazon Web Services Certified Cloud Practitioner (Sep 2022).**
- IBM Certifications: Python for Data Science, AI & Development, Introduction to Big Data with Spark and Hadoop.
- Responsive Web Design Certification by freecodecamp.
- Co-Chairperson of Technology and Gaming Club at VIT Vellore (2021):

  - Contributed to the club's website development, mentored juniors in web development,
  - Organized gaming tournaments and hack-a-thons to promote tech engagement on campus.