# Namgiri Jay Vinay

Multidisciplinary coder and designer with more than two years of experience and a strong passion for creating user-centric solutions. My expertise lies in designing and developing seamless user experience, and I actively contribute to projects related to web and mobile applications, using latest Libraries adn Frameworks, through machine learning research. This combined skillset allows me to bridge the gap between technology, software and design.

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## Experience

**Samsung Research and Development** · Researcher and Senior Software Engineer
2022 → Present

- Designed and developed Android UIs for various apps, ensuring a seamless user experience.
- Researched machine learning to improve smartphone security, implementing advancements to directly protect users.
- Contributed to diverse projects, including Passkey Sharing research, KMX Dashboard development, SRP UI design and implementation, and network API integration.
- Demonstrated strong system understanding by analyzing SOLB (Samsung On-Device Lightweight Blockchain) synchronization operations.
- Explored background app vulnerabilities using Generative AI

**Accolite Software** · Frontend UI Deverloper - Internship
2022 Jan → 2022 June

- Developed a user-friendly and interactive Oracle Dashboard utilising Angular to provide clear data visualisation and enhance user experience for business intelligence purposes.
- Collaborated with backend engineers and business analysts to ensure seamless integration of the dashboard with existing systems and meet client requirements.

## Projects

Machine learning Algorithms Visualisation Tool Platform
- Developed a web interface to visualise the famous Machine Learning Algorithms, besides explains the importance of hyper-parameter tuning using Scikit-learn, Plotly, Html, Css, JavaScript
- Landing page: https://machinelearning-model-explorer.netlify.app

Inventory Management System
- Interface built to manage all the inventory managements which work as a stand-alone GUI tool having features like exporting the Data into Excel and available in different themes using PyQt
- Landing page: https://jays-inventory-management-system.netlify.app

## Research & Publications

- Published Chapter: Introduction to Unsupervised Learning in Bioinformatics, in the book named "Data Analytics in Bioinformatics: A Machine Learning Perspective", got accepted by Wiley Publication

- Published research paper titled "Reconstructing Noised Images of Fashion-MNIST Dataset Using Auto encoders" in IEEE, highlighting contributions to image processing and machine learning by demonstrating the effectiveness of auto-encoders in restoring clarity to corrupted images.

- Published research paper on "Mudras and Yoga Positions Detection and Recognition" utilising YOLOv7 and Faster R-CNN, advancing the field of computer vision by enabling accurate detection and recognition of yoga poses and hand gestures at IEEE 2023 7th International Conference

## Education

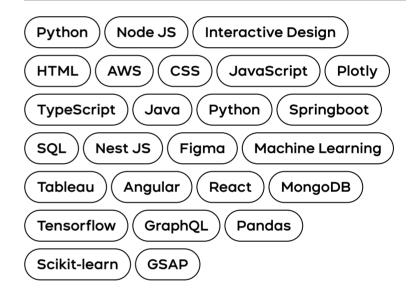| | |
|---|---|
| Bachelor of Technology at SRM University 2018 → 2022 | Computer Science and Machine Learning GPA of 9.1 |
| Intermediate at Sarada Junior College 2016 → 2018 | Mathematics Physics and Chemistry GPA of 9.3 |

## Skills

Python · Node JS · Interactive Design · HTML · AWS · CSS · JavaScript · Plotly · TypeScript · Java · Python · Springboot · SQL · Nest JS · Figma · Machine Learning · Tableau · Angular · React · MongoDB · Tensorflow · GraphQL · Pandas · Scikit-learn · GSAP

## Certifications

- Microsoft Azure AZ-900
- Microsoft Azure AI-900
- Udemy Android Cerificate
- Udemy AWS Cerified Cloud Practitioner
- Tensorflow 2 lite and Keras Deep Learning in Android
- Udemy Software Architect
- Oracle Certificate
- Architecting with Google Compute Engine
- Machine Learning an online Stanford University
- Neural Networks and Deep Learning
- Neural Network from Scratch in TensorFlow