Daivik Girish

Newark, NJ (Open to relocation) | daivikgirish98@gmail.com | 201-349-0101|
https://www.linkedin.com/in/daivik-girish-709ab7185/ | https://github.com/DaivikGirish

EDUCATION

- **New Jersey Institute of Technology, New Jersey** *January 2024 – May 2025*
  Master of Science in Computer Engineering
  Coursework: Machine Learning, Computational Intelligence, Computer Networking, Internet and Higher Layer Protocols, Computer Architecture, DSA, Java, Semiconductor Devices, Embedded Systems, Discrete Events Dynamic Systems.

TECHNICAL SKILLS

- **Programming Languages**: Java, Python, C/C++, JavaScript
- **Web Development**: React, Node.js, HTML/CSS, RESTful APIs
- **Databases**: MySQL, SQL, SQLite, PostgreSQL, MongoDB
- **Tools**: Git/GitHub, Jira, Postman, Jenkins,
- **Cloud platform**: SAP BTP, GCP
- **Frameworks**: SAP CAPM, SAP UI5, SAP Fiori, PyTorch
- **AI/ML**: Machine Learning, Computational Intelligence, Computer Vision

PROFESSIONAL EXPERIENCE

Infosys | *Senior Systems Engineer* *May 2021 – November 2023*

- Led the end-to-end development of 3+ SAP CAPM applications using SAP Fiori, UI5, JavaScript, and Java, improving user productivity by **20%** and accelerating delivery by **30%** in Agile sprints.
- Integrated XSUAA and **SAP Launchpad** to enhance secure user access and navigation, reducing authentication issues by **40%** and boosting user satisfaction by **25%**.
- Analyzed **6+ large datasets** using **SQL** and **SAP HANA DB**, improving system performance by **15%**, increasing test coverage by **28%**, and fixing **32+ bugs** to enhance stability.

Knowx Innovations Pvt Ltd. | *Intern* *July 2019 - August 2019*

- Designed and deployed a **scalable IoT home automation system** using Raspberry Pi, Python, and Google Cloud, improving system efficiency by **15%** and enhancing security measures.
- Utilized **Google Cloud Platform(SaaS)** for data storage, real-time communication, and remote control, increasing connectivity and accessibility across multiple locations.
- Overcame integration challenges by developing robust Python scripts and leveraging Google Cloud APIs, ensuring seamless hardware-cloud integration.

PROJECTS

Web-Based Dashboard for Live Temperature Monitoring *|React.js |Flask |MongoDB|*

- Developed and deployed a responsive real-time dashboard using React, Flask, Chart.js, and MongoDB, improving accessibility by **100%** and enabling live sensor data tracking with **<1s latency**.
- Enhanced cross-device user experience by **40%** through UI optimization with Tailwind CSS and React Hooks, ensuring seamless monitoring across web and mobile platforms.

Java Servlet ATM System | *Java | MySQL | Servlets |*

- Developed and implemented a scalable pseudo-ATM system using **Java Servlets** and **MySQL**, enabling **real-time user authentication** and secure transaction handling for **50+** concurrent users.
- Reengineered database architecture to boost data processing speed by **30%** and created a cohesive **front-end/back-end** system for a seamless user experience.

ML-Based Diabetes Health Indicator *|Python | Scikit-learn | Pandas | Matplotlib |Google Colab |*

- Developed and fine-tuned **ML classification models (Logistic Regression, KNN, Decision Tree)** for early-stage diabetes prediction**,** achieving **86% accuracy** and an **AUC score of 0.88** on real-world health data.
- Analyzed and visualized over **500 patient records** using **Pandas** and **Matplotlib,** performing data cleaning, correlation analysis, and feature selection to uncover key health indicators and improve model interpretability.

Genetic Algorithm for Image Reconstruction | *Genetic Algorithm | Python | PyTorch | Google Colab |*

- Implemented a custom genetic algorithm in PyTorch using advanced operators like Blending crossover and Gaussian mutation, enhancing convergence by **30%** and reconstruction accuracy.
- Accelerated image reconstruction by **5×** through **GPU-based parallelization** in PyTorch on **Google Colab**, dramatically reducing runtime compared to CPU methods.

CERTIFICATES

- **Docker Essentials: A Developer Introduction |**(CO0101EN, provided by IBM) **–** Cognitive Class. *April 2025*
  Gained practical knowledge of Docker containers, image creation, container lifecycle, and deploying containerized applications using Docker CLI and Docker Hub.
- **JPMorgan Chase & Co. Software Engineering Job Simulation –** Forage. *February 2025*
  Completed a hands-on simulation of JPMorgan engineering tasks involving UI development, data visualization, and secure backend integration using React, Python, and REST APIs.