VIKAS MISHRA

(916)-793-6662 | Sacramento, CA | vikas.mishra0796@gmail.com | Linkedin | Portfolio

- ➔ Recent Computer Science graduate with expertise in full-stack development, ML (Machine Learning), and generative AI, actively seeking a full-time role
- ➔ Proficient in utilizing NLP models and innovative technologies for scalable solution development
- ➔ Successfully led projects from inception to deployment, enhancing user adoption by 80% and improving data processing efficiency by 50%, combining academic excellence with over three years in the industry

EDUCATION

Master of Computer Science — California State University, Sacramento (GPA: 3.85) — **Aug 2022 - Dec 2024**

Master of Computer Application — Medicaps University, India (GPA: 3.4) — **Aug 2017 - May 2019**

SKILLS

Machine Learning	Scikit-learn, Keras, Hugging Face, OpenAI API, Llama-3.1-70b
Languages	Java 8, Javascript (ES6), SQL, Python, TypeScript, GIT, HTML5, C++, CSS
Frameworks	React JS, Redux, NextJS, JDBC, Selenium, Spring Boot, TensorFlow, PyTorch, LangChain
Database	MongoDB, MySQL, SQLite, Neo4J, PostgreSQL, ChromaDB (Vector database)
Tools	REST APIs, Flask, Docker, JPA/Hibernate, Jenkins, JIRA, Confluence, Maven, SAP, Node.JS, BitBucket

EXPERIENCE

OWP at California State University — **Full Stack Developer Intern** — **Jun 2023 - Present**

- Led the development of Storm Water Analytics platform, boosting user adoption by 80% through Excel to web-based transition
- Created Flask APIs for secure database interactions, including authentication and SMTP-based email OTP verification
- Optimized React application performance by 40% through advanced state management and efficient rendering techniques
- Improved data handling with lazy loading and caching, boosting response times by 50% for large datasets
- Overhauled the codebase to enhance architecture, scalability, and UI component reusability
- Elevated code maintainability and reduced bugs by 30% through strategic JSX to TSX refactoring

Tata Consultancy Services — **Backend Developer** — **Jun 2019 - Jul 2022**

- Architected a microservice platform using Java REST API, Spring Boot, and JPA, enabling ERP clients to efficiently process high-volume SAP data
- Crafted high-performance dashboard APIs and reports, increasing data visibility by 75% for stakeholders
- Boosted MDSC microservice database efficiency by 60% through strategic ORM overhaul and query optimization
- Enhanced real-time business activity monitoring microservice performance, reducing response time by over 40%

PROJECTS

Email Generator using LangChain, Llama-3.1, and ChromaDB (Github) — **Aug 2024 - Sep 2024**

- Developed an email generator utilizing LangChain and Llama-3.1-70b, integrated with ChromaDB to extract and process job descriptions and match with my skills and projects to generate tailored, professional emails

Parallel Branch-and-Bound Algorithm for the Sequential Ordering Problem (Github) — **Jan 2024 - Present**

- Optimized computation performance by implementing multithreading techniques like work stealing, thread stopping, and dynamic load balancing in C++, significantly reducing processing times and enhancing overall efficiency

Heart Disease Prediction using K-Nearest Neighbors (KNN) (Github) — **Oct 2023 - Nov 2023**

- Developed an ML model for heart disease prediction using KNN, incorporating feature scaling, Z-score normalization, and outlier removal—optimized model accuracy through data preprocessing and evaluation with scikit-learn

Social Media Application on MERN (Github) — **Aug 2023 - Sep 2023**

- Crafted social media platform, Thread, by leveraging the MERN stack to architect both the front-end and back-end

EXTRACURRICULAR

- Participated in university hackathons, developing applications within time constraints
- Member of the university's Computer Science Club, contributing to coding workshops
- Volunteered as a peer mentor for introductory programming courses
- Maintained a personal tech blog on software development experiences