

Ishika Bhaumik

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EDUCATION

University of California, Davis

MS, Computer Science

KIIT India

B.Tech Computer Science

Sept 2024 - Expected Mar 2026

Davis, CA

Jun 2018 – May 2022

Bhubaneswar, India

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, C++, TypeScript

Frameworks/Technologies: React, Spring Boot, Struts, Docker, Rest API, TensorFlow

Database: SQL, Snowflake

AWS: EC2, S3 and Lambda

Version Control: Git

Concepts/Methodologies: Machine Learning, Microservices, Prompt Engineering, Data Structures, Claude/Cursor (workflow assist), NLP

PROFESSIONAL EXPERIENCE

UC DAVIS

Davis, CA

Teaching Assistant

Sept 2024 – June 2025

- Assisted in teaching and grading for the Coding for Designers course focused on **Object-Oriented Programming** for a class of **30 students**, leading coding labs, holding office hours, and developing assignments and test suites to enhance learning and evaluation consistency.

NOVARTIS

Hyderabad, IN

Associate Software Developer

Aug 2022 – Aug 2024

- Built and maintained KPI dashboards using **React.js**, **Spring Boot**, and **SQL**, optimizing performance through query tuning and data handling to reduce manual **efforts** by **80%**, support **4,000+** daily users, and improve overall reliability and user experience.
- Collaborated with cross-functional teams to deliver data visualization and automation solutions using React.js, SQL, **TensorFlow**, **Python**, and **Git**, transforming unstructured data into insights and reducing **decision** turnaround **time** from **4 days to 1 hour** while improving reporting efficiency by **60%**.

Intern

Jan 2022 – Jun 2022

- Developed and deployed **machine learning** models in **Python** using **TensorFlow** to process large-scale pharmaceutical datasets, uncover shelf-life patterns, and design data preprocessing and feature engineering pipelines that reduced medicine degradation time from **2 years to 1.5 years**, improving inventory management.

HIGHRADIUS TECHNOLOGIES

Hyderabad, IN

SDE Intern

Jun 2021 - Dec 2021

- Designed and developed **React** dashboards to enhance Accounts Receivable visibility, streamlining CFO decision-making.
- Optimized legacy **SQL** queries for Snowflake, improving performance by 30% and reducing report generation time.

PROJECTS

Web Scraper for Trending Tech Stacks | Python, Spring Boot, React, SQL, Java.

- Built a website to analyse and summarize trending technologies, using Python for data scraping, Spring Boot for backend services and React for the frontend.

Chrome Extension for Automated Web Vulnerability Scanning | JavaScript, Python, OWASP ZAP API

- Developed a Chrome extension for automated web vulnerability scanning and benchmarked its detection accuracy against tools like Burp Suite and OWASP ZAP. Enhanced cyber-resilience by identifying web vulnerabilities

LEADERSHIP AND ACHIEVEMENTS

- Awarded Best Innovation Project at Novartis
- Mentored undergraduate students, led coding lab sessions, conducting code reviews, and guiding students through debugging and problem-solving best practices.