Ishika Bhaumik

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EDUCATION

University of California, Davis   **Expected Jun 2026**
MS, Computer Science   Davis, CA

KIIT India   **Jun 2018 – May 2022**
B.Tech Computer Science   Bhubaneswar, India

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript, C++, TypeScript
- **Frameworks/Technologies:** React, Spring Boot, Struts, Docker, Rest API
- **Database:** MySQL, Snowflake
- **AWS:** EC2, S3 and Lamda
- **Version Control:** Git

PROFESSIONAL EXPERIENCE

NOVARTIS   Hyderabad, IN
Associate Analyst   **Aug 2022 – Aug 2024**

- Built and maintained KPI monitoring dashboards using **React.js**, **Spring Boot**, and **SQL** for database queries, reducing manual KPI reporting work by **80%** and supporting **4,000+** daily users.
- Improved application performance and reliability through Spring Boot optimizations, SQL query tuning, and efficient data handling, enhancing overall user experience.
- Partnered with cross-functional teams to deliver data visualization solutions leveraging React.js, SQL, and TensorFlow-based models, accelerating decision-making processes and improving reporting **efficiency** by **40%** for stakeholders.
- Engineered an automation pipeline using **Python**, SQL, and **GIT** to ingest and normalize unstructured data from heterogeneous sources, apply transformation logic, and programmatically generate a 20-page document, reducing report creation time from **4 days to 1 hour**.

Intern   **Jan 2022 – Jun 2022**

- Developed and deployed **machine learning models in Python using TensorFlow** to process large-scale pharmaceutical datasets, uncovering patterns influencing medicine shelf life.
- Designed **data pipelines** for preprocessing and feature engineering, enabling accurate prediction of degradation rates and reducing medicine shelf life 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.

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.
- Led cross-functional teams of engineers and analysts at Novartis