

# VIKRANT DEWANGAN

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Vikr-182

## EXPERIENCE

### Product Engineer, AI

#### Sprinklr

July 2023 – Present

Gurgaon, Haryana

- Developed and maintained enterprise-scale Generative AI solutions employing RAG (Retrieval Augmented Generation) architecture for Sprinklr's Conversational AI services such as FAQ bots and Product Recommendation service, with multilingual deployment across Sprinklr's English, Arabic, and Japanese clients.
- Deployed robust guardrail systems for LLM hallucination detection across text, image, and audio modalities, ensuring context-awareness and high degree of factuality in responses.

### Product Engineering Intern

#### Sprinklr

May 2022 – July 2022

Remote

Developed and deployed an interactive Slack bot to perform Anomaly Detection for monitoring logs over Elasticsearch data.

## EDUCATION

### B.Tech + M.S by Research in Computer Science

#### International Institute of Information Technology, Hyderabad

2018-2023

CGPA: 9.13

- Conducted extensive research in Autonomous Robotics and Swarm Motion. Selected publications presented at top robotics conference - IEEE-ICRA (CORE-A\*).
- Winner of India-EU ICT Hackathon for innovative IoT-based Indoor Air Pollution monitoring solution. Part of the Indian delegation at Europe's premier startup conference Bits & Pretzels.

## PROG. COMPETITIONS

- Google Kickstart:** vikr-182: Ranked 1715 in Round D, and 2123 in Round C. Participated in other KickStart rounds, CodeJam and Hash-Code.
- Codeforces:** vikr\_182 Peak Rating: 1622
- Codechef:** vikr182 Peak Rating: 1784
- Hackerearth:** vikr\_182 Rating: 1486

## ACHIEVEMENTS

- Awarded Dean's List I. Top 5% students in the class.
- Recipient of NTSE scholarship awarded to top 1000 students in India.
- Participated in CANSAT competition organized by NASA under Team Karman, ranking 2nd worldwide in CDR.
- Attended the Indian National Maths Olympiad Camp (INMO), held at HBSCE.

## PROJECTS

### Bulk Purchase App

An e-commerce app built with MERN (MongoDB, Express.js, React.js and Node.js) stack, for retail buyers and sellers, to enable mass transaction of goods.

### Air Accidents Visualizer | D3.js, Flask

A comprehensive data visualization of Air Crashes from the period 2000-2018, including a draggable globe, a scatter plot, a sunburst chart and a pie chart for visualizing different aspects.

### vcsh - A basic Linux Shell | C

A command line interpreter, written purely in C, with support for piping, redirection and built-in as well as system commands.

### PreQL++ | C++

A simplistic relational database management system implemented purely in C++ with support for indexing types B+Tree and Linear Hashing.

### Extended xv6 OS | C/C++

Implemented additional features on top of MIT's xv6-OS. Implemented scheduling policies like Priority Based (PBS), Multi-level feedback Queue (MLFQ) and First Come First Serve (FCFS).

### Distributed Web Editor

Developed real-time synchronous web-editor capable of handling multiple users via the WebRTC protocol.

## SKILLS

**Programming:** C/C++, Python, Java

**Cloud:** Google Cloud, Kubernetes, AWS

**Deployment:** Jenkins

**ML & AI:** Computer Vision, NLP, RL

**Design:** Blender, Unreal Engine, Unity

## VOLUNTEERING

- COVID Task Force:** Part of a dedicated frontline team in my college for COVID-19 testing initiatives, volunteering in vaccination/testing drives and providing support to health authorities in response to the pandemic.
- Felicity-Tech Fest - Tech Lead:** Led a dedicated team to implement and manage tech stack of our college festival.