

# KUSH KOTHARI

✉ [kushkothari2001@gmail.com](mailto:kushkothari2001@gmail.com)

in [linkedin.com/in/kush-kothari-ba013218b/](https://www.linkedin.com/in/kush-kothari-ba013218b/)

github.com/kkothari2001

☎ +91 9833230036

## Education

**Veermata Jijabai Technological Institute**

2019 – 2023

*Bachelor of Technology in Computer Engineering (CGPA: 8.65)*

India

## Experience

**Deutsche Bank (DWS Asset Management)** 

10 July 2023 – Present

*Senior Analyst*

*Pune, India*

- Tech Stack: Typescript/Javascript, React, Java, Spring, GCP, Docker
- **Boosted trader efficiency by 10x** by developing a real-time WebSocket dashboard that aggregated multi-source equity lending data, featuring **fuzzy search, dynamic filtering, and high-frequency updates**
- Built and optimized both frontend and backend components for a data-intensive asset management platform, improving scalability with **database query optimizations, frontend caching (25% load time reduction), and Higher-Order Components (HOCs)** for UI modularity and reusability.
- **Saved the company \$20,000 in licensing fees annually** by creating a REST API-based trade booking workflow and automating BVI-file trade processing, which **replaced a costly robot automation framework**.
- Collaborated with designers and stakeholders in an Agile environment using JIRA and Figma, iterating rapidly based on trader feedback. Actively contributed to code reviews and mentoring, and conducted **internal trainings on React Internals, Frontend Best Practices, and Docker**.

**Google Summer of Code 2022, CERN-HSF** 

July 2022 – Sep 2022

*Open Source Contributor*

- Tech Stack: Python, Dask
- Contributed to Uproot, a Python library for streaming high-energy physics data from ROOT files.
- Built uproot.dask, integrating Uproot's data streaming with Dask's parallel computing, enabling researchers to **process large-scale datasets efficiently across distributed clusters and low-memory environments like laptops**.
- **Optimized Dask computation graphs**, reducing workflow execution times by 40% and memory overhead from multiple GBs to just **250-500MB** on standard laptops.
- Implemented **multi-backend support**, integrating NumPy, Awkward Array, and DataFrame pipelines, allowing high-energy physics researchers to work with ROOT file data in their preferred formats effortlessly.
- **Benchmarked 5+ execution modes** across single-core, multi-threaded, and distributed clusters, ensuring scalability for high-energy physics workflows.

**Google Summer of Code 2021, NumFOCUS** 

May 2021 – Sept 2021

*Open Source Contributor*

- Tech Stack: Python, Django, PostgreSQL, Linux, Docker
- Built a **spatial data download and installation pipeline** for Data Retriever, enabling seamless integration of **50+ vector and raster datasets** into PostgreSQL with PostGIS.
- Automated health checks, **reducing database installation failures by 30%** and allowing users to debug errors.
- **Cut manual setup time by 50%** by designing an automated testing pipeline for **Linux servers using cron jobs**.
- Contributed **18 new spatial dataset testing scripts**, along with a **modular framework** to support scalable dataset additions.

## Technical Skills

**Frontend Tech:** React.js, Typescript / Javascript  
**Cloud Tech:** Google Cloud Platform

**Backend Tech:** Java (Spring Boot), Python, SQL  
**Dev and DevOps Tech:** Git, Docker, Linux, Bash, Jenkins

## Projects

**twAIIn** | Python, NLP, Flask, Web Design, SCSS

July 2020

- Built an AI-powered interactive storytelling platform, serving as a dynamic Dungeons & Dragons (DnD) campaign generator, creating narratives based on user-defined prompts, genre, and length.
- Developed and integrated a React-based frontend with a Python Flask backend to handle AI model inference.
- Designed an intuitive UI with interactive story progression, enabling customizable character arcs and genre-based storytelling.

## Certifications

**Google Cloud Professional Data Engineer Certification** 

Jan 2024