AMOGH FIRKE

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EDUCATION

PES UNIVERSITY, *Bengaluru*   **B.Tech Computer Science**   *Sept 2021 - Present*

SKILLS

- **Programming Languages:** Java , Python, MOJO
- **Web Development:** Next.js, Framer Motion, TypeScript, Stream-lit , GitHub , MongoDB, SQL , Spring Boot
- **Data Science:** Machine Learning, NumPy, Pandas, Matplotlib
- **Supply Chain and Operations:** Supply Chain Optimization, Logistics Solutions

INTERNSHIP

Supply Chain Intern, Taiyo Kagaku Pvt. Ltd   **Jun 2024 - July 2024**

- **Supply Chain Optimization:** Enhanced operational efficiency by implementing advanced strategies, reducing bottlenecks by **30%** and improving workflow.
- **Logistics Streamlining:** Developed and executed solutions, increasing client satisfaction by **20%** through timely and cost-effective delivery.
- **Documentation and Communication:** Standardized documentation processes, leading to a **25%** reduction in communication
- **Cost Reduction Achievement:** Achieved a **60%** cost reduction through efficient document management

Summer Research Intern | Sports Analytics and Research Centre (STARC)   June 2023 - August 2023

- **Deep Learning Model Development:** Created **'BOWL-BUDDY'**, a model that improved fast bowler performance by **15%** and reduced injury risks.
- **Extensive Dataset Utilization:** Trained the model on over **1,000** datasets, ensuring comprehensive coverage of optimal and injury-prone bowling actions.
- **Action Comparison and Recommendations:** Enabled bowlers to refine techniques by comparing actions with model recommendations, resulting in a **10%** improvement in performance.
- **Injury Prevention Focus:** Integrated strategies that reduced injury rates by **20%**, aiding in performance improvement while safeguarding health.

PROJECTS

Personal Portfolio Website Development   Jan 2024

- **Designed and Implemented:** Built a personal portfolio with **React.js**, **Next.js 14**, **Tailwind CSS**, and **Shadcn UI**, enhancing user engagement
- **Performance Optimization:** Reduced website load times by **25%** through efficient code optimization and modern design principles.
- **Demonstrated** expertise in **component-based architecture** and **SSR**, achieving **95%** cross-browser compatibility and improving **mobile responsiveness** by **30%**.

Interactive Data Analysis of the 2020 Tokyo Olympics: Insights and Visualizations   Sept 2023

- **Engineered and Launched:** Developed an **interactive data analysis application** with **Streamlit**, hosted on **Heroku**, increasing user interaction by **50%** and supporting **scalable access** for over **10,000** users.
- **Data Processing:** Managed and cleaned over **50,000** records using **Python** and **Pandas**, improving data accuracy by **40%**.
- **Advanced Visualizations:** Created **visualizations** with **Seaborn** and **Plotly**, delivering actionable insights into **200+** medal tallies and athlete performances, enhancing data interpretation efficiency by **40%**.

Ticket Reservation System   Mar 2023

- **System Development:** Built a comprehensive reservation system using **PostgreSQL**, **Thymeleaf**, and **Spring Boot**, resulting in a **35%** increase in booking efficiency and enhanced user experience.
- **Java Architectures Implementation:** Implemented advanced **Java design principles** such as **Dependency Inversion**, **Single Responsibility**, **Builder Pattern**, and **Facade Pattern**, resulting in a **40%** increase in system maintainability and a **25%** reduction in development time.
- **Module Design:** Engineered modules for **admin** and **client management**, which contributed to a **25%** reduction administration
- **Performance Optimization:** Enhanced system performance by **40%** through optimized **database management**