

# VISHAL KUMAR

 9839792826  vk0482000@gmail.com  VishalKumar72  VishalKumar72

## Education

**National Institute of Technology Karnataka, Surathkal**

*Bachelor of Technology, Information Technology, CGPA : 7.26/10.0*

**Mangalore, Karnataka**

*Dec 2020 - Apr 2024*

**S.S.B. Intermediate college**

*Class 12, Percentage: 75.80%*

**Varanasi, Uttar Pradesh**

*Jul 2017 - Apr 2018*

## Work Experience

**TVS Motor Company, Bengaluru, India** Jul 2024 – Present

*Software Engineer*

- Built scalable **Wear OS + Android** applications with **BLE integration**, Firebase sync, and GraphQL APIs; led integration of location-aware modules (HERE Maps, Android Location Services) and secured data pipelines for 100K+ users.
- Engineered high-throughput **Java (Spring Boot)** microservices to orchestrate OTA campaigns—including version control, vehicle eligibility, and rollout strategies—resulting in a 30% improvement in update delivery accuracy.
- Developed **event-driven APIs (Kafka)** and optimized telemetry pipelines to ingest and process vehicle diagnostics; implemented **metric calculators and scenario predictors** enabling data-driven strategies and insights across deployments.
- Automated build/test/deploy workflows using **Docker, GitHub Actions, Jenkins**; enforced **TDD** (JUnit, Mockito) with 90%+ unit test coverage and collaborated across sprints to deliver analytics-focused features aligned with business KPIs.

## Internship

**Dept. Of Information Technology, NITK**

**05-23 – 07-23**

*Mental Health Chatbot*

- Chatbot assistance for Mental Health assistance using NLP model

## Projects

**Heatwave And AQI Forecasting** | *Data Integration, Machine Learning*  **Git**

**Jan–May 2023**

- Forecasted Heatwave occurrences and Average Air Quality Index for certain districts in Telangana
- Collected and Integrated data from various government sources; Converted them to a format to be inputted to ML model
- Used univariate forecasting to forecast independent variables(features) followed by forecasting of the Heatwave and AQI
- Compared few models to find the best model

**Web Attack Detection** | *Deep Learning Models*  **Git**

**Jan–May 2023**

- Due to the network access and security vulnerabilities of web applications, web applications are often targets of cyber-attacks. Deep learning techniques offer the potential to effectively identify and mitigate various types of web attacks, such as SQL injection, cross-site scripting (XSS), cross-site request forgery (CSRF), and more.
- Monitoring web attacks is the project's primary goal. In this project, I try to train the deep learning models (ANN, CNN, and RNN) to recognize web attacks based on web log data supplied by the user.

## Technical Skills

**Languages:** C, C++, Python, Java, **Web:** HTML, CSS, MySQL, **Tools:** Git, Postman, Linux, **Skills:** Data Structures, OOP, DBMS, OS.

## Achievements

- [GeeksForGeeks](#) - Solved 500+ problems with institute rank of around 20
- Secured Global Rank 25 in Codechef Starters 83 in Div-3.
- Awarded by the UP Government for scoring higher than 80 Percentage in the 10th grade.
- 900+ Algorithmic Problems have been Solved on a Variety of Online Platforms, including LeetCode, GeeksForGeeks, CodeChef, Codeforces, and Interviewbit.