

KUMMURU SAI MUKESH

| mukesh.kummuru@gmail.com | | +91 9652561098 | | Nawabpeta, Nellore |

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PROFESSIONAL SUMMARY

Software Developer with hands-on experience in Python-based backend development using Django and FastAPI. Built scalable REST APIs, real-time applications with WebSockets, and full-stack systems using React.js and MongoDB. Internship experience at NRSC (ISRO) in large-scale data processing, performance optimization with Dask, and basic regression-based ML modeling. Strong understanding of API architecture and authentication (JWT).

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL, HTML, CSS

Frameworks : Django, FastAPI, React.js, Express.js

Databases: MongoDB, MySQL

APIs & Protocols: RESTful APIs, WebSockets, JWT

Developer Tools: Git, GitHub, Postman, Firebase, CI/CD Pipelines, Docker

Software Engineering Principles: SDLC, Agile Methodologies

WORK EXPERIENCE

Software Engineer Intern

National Remote Sensing Centre (NRSC), ISRO | Aug 2024 - Sep 2024

- Technologies:** Python, QGIS, Bhuvan, React
- Libraries Used:** Rasterio, NumPy, Matplotlib, Pandas, Dask
- Developed a spatio-temporal data processing pipeline to handle missing values in 10 years of satellite evapotranspiration datasets.
- Optimized large-scale raster data processing using Dask, reducing computation time by 40%.
- Applied spatial-temporal interpolation techniques and experimented with regression models (Linear Regression, Random Forest) to improve prediction accuracy.
- Evaluated model performance using MAE and RMSE metrics.
- Built a lightweight React-based dashboard to visualize processed satellite trends and model predictions.

TECHNICAL PROJECTS

Project Title: GANGS - eCommerce Website Development

- Technologies:** React.js, Node.js, Express, MongoDB, Git, REST APIs
- Developed a full-stack eCommerce platform with custom REST APIs and dynamic product management.
- Implemented JWT-based authentication and token-based authorization.
- Designed MongoDB schemas for product and user management.
- Built interactive UI features including image sliders and cart functionality.

Project Title: Chit Chat – Real-Time Mobile Chat Application

- Technologies:** Flutter, Dart, FastAPI, Python, MongoDB, Firebase, WebSockets
- Built a real-time chat application using Flutter and FastAPI with WebSocket-based messaging.
- Implemented JWT-based authentication with OTP verification and secure password hashing.
- Developed REST APIs for user profiles, friend requests, and chat history.
- Integrated Firebase Storage for profile image uploads and real-time notifications.

EDUCATION

Audisankara Institute of Technology, Gudur

- 7.27 CGPA

Bachelor of Technology (CSE)

2020 - 2024

Intermediate (MPC), Narayana Jr College | 2018 - 2020

- 8.48 CGPA

CERTIFICATIONS

- Data Science Foundation – IABAC
- Full-Stack Web Development – IIDT

INTERESTS

- Enjoy both outdoor and indoor games such as cricket and badminton, where I learned teamwork and dedication.
- Passionate about sci-fi and adventurous movies, drawn to their imaginative narratives and thrilling storylines.