Kalparatna Mahajan

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Summary

Self-motivated, goal-oriented, and highly motivated to leverage my technical expertise and problem-solving skills to contribute to innovative solutions and drive organizational success. Passionate about continuous learning and dedicated to excelling in technology and software development.

Projects

- AI-Powered Interactive Learning Platform ↗   Sep 2024 – Present

- Engineered an AI-powered learning platform using Django & React, increasing user engagement by **40%** with **personalized content recommendations powered by NLP and Transformer models**.
- Integrated **NLP and Transformer Models** for dynamic content delivery.
- **Technologies Used:** Django, Python, React, REST Framework, MySQL, HTML, CSS, JavaScript.

- IPL Best 11 Team Prediction for Dream 11 Platform ↗   Aug 2023 – Oct 2023

- Engineered an **ML-based IPL team selection system**, achieving **85% accuracy** in Dream11 predictions using historical performance and real-time data.
- Developed a **user-friendly interface** with Flask for seamless interaction.
- **Technologies Used:** Python, Flask, HTML, CSS, JavaScript, API Development, MySQL.

- Road Transport Network Telematics Solution for Post Services ↗   Sep 2024 – Nov 2024

- Built a **GPS-based real-time tracking and route optimization system**, improving delivery efficiency by **20%**.
- Implemented **Geofencing and GIS** for accurate location tracking and route planning.
- Technologies **Used:** Django, Python, Shapely, Firebase, REST Framework, Stripe, React.

Skills

- **Programming Languages:** Python, C++, Flask, Django
- **Libraries & Frameworks:** Django, Flask, NumPy, Pandas,
- **Databases:** MySQL, MongoDB
- **Tools & Technologies:** AWS, Git, RESTful APIs, Github, Gen AI, RAG.
- **Web Development:** HTML, CSS, JavaScript
- **Behavioral:** Leadership, Teamwork, Problem-Solving, Analytical Thinking, Communication Skills.

Education

- **B. Tech (IT) | SVKM IoT Dhule |** *CGPA: 7.86/10*   Nov 2022 –Present

- **Diploma (Mech) | Government Polytechnic, Jalgaon |** *Percentage: 84%*   Aug 2019 – June 2022

Research & Publication

- AI-Powered Interactive Learning Platform ↗   INCOFT 2025
- AI-Powered Agriculture Optimization Chatbot using RAG and Gen-AI ↗   IEEE SILCON 2024
- Machine Learning Based IPL Fantasy Cricket Dream11 Best Team Prediction. ↗   IEEE ECSI 2024
- Copy-Move Forgery Detection ↗   ICETIC 2023

Certifications & Courses

- Data Visualization with Python (Coursera) ↗   Nov 2023
- Machine Learning Course (Pantech Solutions) ↗   Oct 2023
- 240 Hours Python Training Certification (Campus Credentials) ↗   June 2024
- AWS cloud essentials (GDSC KIIT) ↗   Feb 2024

Achievements

- **Runner-Up** | HackWave National Hackathon | ↗   April 2024
- **Top 1%** | Naukri Campus Young Turks Competition | Score: 98.46% | ↗   Oct 2024
- **Top 10** | Jana Kalyan Hackathon | Feb 2024
- **Third Prize** | CodeCaze Coding Competition | June 2024