Kapil Kashyap

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EDUCATION

Dwarkadas J. Sanghvi College of Engineering Mumbai, India

B-Tech Computer Engineering with Honors in Intelligent Computing (GPA: 8.91) **Dec 2021 - May 2025 Expt.**

Related Coursework - Data Structures, Operating Systems, Computer Networks, DBMS, Advanced Algorithms, Business Analytics Machine Learning, Deep Learning, NLP

SKILLS SUMMARY

- **Languages**: C, Java, Python
- **Frameworks**: Pandas, Numpy, Scikit-Learn, Matplotlib, Keras, NLTK, OpenCV
- **Tools**: Power BI, Excel, PowerPoint, Tableau, MySQL, SQLite,Figma, Google Analytics, SAS Viya
- **Platforms**: PyCharm, Jupyter Notebook, Visual Studio Code, Intellij IDEA, Kaggle, Firebase, Streamlit

WORK EXPERIENCE

Teaching Assistant | Dwarkadas J. Sanghvi C.O.E **August 24- present**

- Assisted in teaching Processor Architecture and Organisation and Information Security under Assistant Professor Chinmay Raut, simplifying complex concepts through well-structured notes and interactive slides.
- Mentored and supported nearly 80 students, providing academic resources and personalized guidance, contributing to improved grades and deeper subject understanding.

Web Developer | Suvidha Foundation **June 24- July 24**

- Designed and developed responsive web pages for organizational campaigns, improving user engagement by 25% and streamlining access to resources for over 500 users.
- Collaborated with a team to optimize website performance, reducing page load time by 40% and ensuring a seamless user experience across devices

Business Development and Sales Intern | Parkit.biz **June 23- August 23**

- Executed targeted lead generation campaigns through social media channels, resulting in a 60% increase in engagement rates; analyzed campaign performance metrics to refine future strategies and optimize outreach efforts.
- Partnered with the HR department to optimize recruitment workflows and boost employee engagement, driving organizational growth and efficiency.

Junior Manager Incoming Corporate Sector | AIESEC in Mumbai **January 22- March 23**

- Established partnerships with premier organizations like St. Regis and fostered collaborations with 8 entities across 3 countries to strengthen global ties.
- Orchestrated a high-impact conference in Silvassa for 100 delegates, generating ₹5.4 lakh in revenue and delivering an exceptional participant experience.

PROJECTS

CF Progress Pulse| LINK **July 2024**

- Developed a tool to fetch and analyze Codeforces data, tracking users' ranking progression and sending notifications when they advance to a new color tier, enhancing engagement on the platform.
- Customized the tracker to specifically monitor performance for my college, providing personalized insights that encouraged healthy competition and skill development among students.

Disease Outbreak Prediction | LINK **April 2024 - May 2024**

- Implemented deep learning algorithms and LLMs to predict infectious disease outbreak severity in India, using historical disease and climatic data. Created a dataset, generated text embeddings with DistilBERT, and developed a hybrid deep learning model, achieving an R-Squared value of 0.95 on the Influenza test dataset.

DJSCE E-Cell Website | LINK **September 2023**

- Designed, developed, and successfully deployed the official DJ E-Cell website, enhancing its user experience through significant UI improvements and intuitive design changes that increased user interaction by 40%.
- Optimized the backend for efficiency, ensuring smooth functionality and fast load times, leading to a 25% improvement in website performance and reliability.

Lap-GPT | LINK **June 2024-Aug 2024**

- Optimized F1 race strategy using Monte Carlo simulations. Integrated real-time data to predict optimal pit stops and tire selections.
- The system demonstrated a 15% improvement in race position predictions compared to traditional methods, showcasing the potential for significant performance gains in motorsport through data-driven decision-making.

PUBLICATIONS

Hybrid Predictive Modeling for F1 Race Outcomes: Integrating Random Forest and Graph Neural Networks

Dynamic Neural Style Transfer for Artistic Image Generation using VGG19

Brain tumor detection and prediction using Federated Learning

Patent Novelty Assessment: Accelerating Innovation and Patent Prosecution