Pratyush Kargeti

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Education

B.Tech, Computer Science Engineering – Graphic Era University, Dehradun 2021 – Present
   CGPA: 9.0/10.0
Senior Secondary (12th), CBSE – Doon International School, Dehradun 2020
   Percentage: 92.6%
Secondary (10th), CBSE – P.D.D.S. Vidya Mandir, Mathura 2018
   Percentage: 95.16%

Work Experience

Web Development Intern – Kicks Machine, Dehradun Jul 2024 – Aug 2024
- Developed high-scale web scraping pipeline using **Selenium**, **BeautifulSoup**, and **Python**, extracting product details for 5000+ items across 6 e-commerce websites.
- Structured scraped data using **Pandas**, enabling 30% faster data analysis for business insights. `GitHub`

Projects

Trivana: Multi-Domain AI Companion powered by LLMs `GitHub`
- Built a conversational AI assistant using **Python**, **Groq API**, and **LangChain**, delivering personalized insights for Movies, Music, and Sports.
- Deployed on **Streamlit Cloud** with a modern UI, supporting context-aware memory and **24/7** uptime.

Spamalyzer: Real-Time Spam Detection Web App `GitHub`
- Built a full-stack ML web app achieving **97.6%** spam detection accuracy using **SVM**, **NLTK**, and **Scikit-learn**, served via a **Flask**-powered **REST API**.
- Deployed frontend on **Netlify** and backend on **Render**; integrated **UptimeRobot** to eliminate cold start delays and ensure **99.9%** backend uptime.

Retinal Image Analysis for Diabetic Retinopathy Detection `GitHub`
- Achieved **79%** accuracy in 5-class diabetic retinopathy classification using **DenseNet121** and transfer learning on APTOS 2019 dataset (3,662 fundus images).
- Applied **CLAHE** preprocessing technique, improving blood vessels visibility and model performance.

Technical Skills

- **Languages**: C++, Python, Java, JavaScript, SQL, ReactJS, NodeJS, ExpressJS
- **Frameworks/Tools**: Scikit-learn, TensorFlow, Keras, Pandas, Numpy, Matplotlib, OpenCV, Flask, Streamlit, LangChain, Selenium, BeautifulSoup, Git, Postman, Ollama, Jupyter Notebook
- **Domains**: Web Development, AI/ML, Deep Learning, NLP, Computer Vision, Data Structures & Algorithms, OOPs, DBMS, Operating Systems, Computer Networks
- **Databases**: MySQL, MongoDB

Achievements

- Solved over 500+ LeetCode problems, top 18% globally.
- 3rd place, Tech Traverse 1.0 Coding Competition, ISTE, Graphic Era (Rs.2000 cash prize).
- Qualified JEE Mains 2021; secured NIT admission offer.

Coding Profiles

- **LeetCode:** View Profile
- **GeeksforGeeks:** View Profile
- **StopStalk:** View Profile