# Pratyush Kargeti

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## ACADEMIC DETAILS

| Year | Degree/Exam | Institute | CGPA/Percentage(%) |
| --- | --- | --- | --- |
| 2021 - Present | B.TECH in Computer Science | Graphic Era University Dehradun | 9.0 |
| 2020 | 12th, C.B.S.E | Doon International School, Dehradun | 92.60% |
| 2018 | 10th, C.B.S.E | P D D S Vidya Mandir, Mathura | 95.16% |

## WORK EXPERIENCE

- **Web Development Intern, Kick Machine, Dehradun** `GitHub`
  July 2024 - Aug 2024

  Used Selenium, BeautifulSoup, and Pandas for high-scale automated web scraping from sneaker selling websites and extracted product details. Also stored the data in structured formats for further analysis.

## PROJECTS

- **TRIVANA — A Multi-Domain AI Companion Powered by LLMs** `GitHub`
  *Tech Stack- Python, Streamlit, Groq API, LLMS, LangChain, HTML, CSS, JavaScript*

  Developed a smart conversational assistant powered by Groq + LangChain to provide personalized insights across Movies, Music, and Sports domains. The app features interactive, genre-specific responses and allows users to select Groq models for tailored answers. The application uses Streamlit for a modern, dark-themed interface and supports conversational memory for context-aware interactions. Deployed on Streamlit Cloud with real-time API integration for data fetching and management. Offer 24/7 uptime.

- **Spamalyzer – Real-time Spam Detection Web App** `GitHub`
  *Tech Stack- Python, Flask, Scikit-learn, NLTK, Bootstrap, JavaScript, Netlify, Render*

  Built and deployed a full-stack ML web app to classify messages as spam or ham using an SVM model (97.6% accuracy). Used NLTK for preprocessing and implemented real-time REST API communication between a Netlify frontend and Flask backend on Render. Increased delayed uptime of backend by 100%.

- **Retinal Image Analysis for Diabetic Retinopathy** `GitHub`
  *Tech Stack- Scikit-learn, Python, Deep learning, Transfer Learning, Numpy, Pandas, Matplotlib, Seaborn, PIL*

  Applied machine learning, deep learning, and transfer learning on APTOS 2019 Blindness Detection Dataset. A CNN classifier based on the DenseNet121 network (trained for ImageNet) performed best with an accuracy of 79% for 5-class severity classification.

## TECHNICAL SKILLS

- **Languages:** C++, C, HTML, CSS, Java, Python, PHP, JavaScript, SQL, ReactJS, NodeJS, EJS, ExpressJS, MongoDB

- **Tech Tools and Frameworks:** GitHub, Git Bash (Git Version Control), XAMPP (database connectivity using PHP), VSCode, CodeBlocks, Postman, Joi, MongoDB Compass, Flex (lexical analyzer), Bison (parser generator), Flask, Streamlit, LangChain, Ollama, Gradio, Groq API

- **Data Analysis and Web Scraping Tools:** Pandas, Selenium, BeautifulSoup, TensorFlow, Keras, Scikit-learn, Matplotlib, Numpy, Seaborn, OpenCV, GridSearchCV (hyper-parameter tuning), Google Colab, Jupyter Notebook, Anaconda Prompt (Miniconda3)

- **Soft Skills:** Problem-solving, Active listening, Patience, Critical thinking, Creativity, Accountability, Confidence, Time and project management

- **Additional Proficiency:** NLP, LLMs Deployment, Computer Networks, Operating Systems, Databases, Machine Learning, Data Structures & Algorithms

## SCHOLASTIC ACHIEVEMENTS

- **Tech Traverse 1.0:** Won third prize in Final Coding Round of Tech Traverse 1.0 organized by ISTE in Graphic Era and a cash prize of Rs.2000

- **JEE MAIN:** Cleared JEE MAIN Examination in 2021 and got offered from an NIT for B.Tech Mechanical Engineering. Also qualified for JEE ADVANCED.

- **School Topper:** Ranked first in class X Board Examination and among top 3 in class XII Board Examination

- **Subject Proficiency:** Scored 80/80 in Maths (Class X) and 96 percentile in Chemistry (JEE Mains)

- **Sports and Music:** Participated in State Level Badminton Tournament, District Level Cricket Tournament and represented school in various Inter School Music and Quiz Competitions.

## CODING PLATFORMS

- **LeetCode:** View Profile

- **GeeksforGeeks:** View Profile

- **StopStalk:** View Profile