

# 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	12 <sup>th</sup> , C.B.S.E	Doon International School, Dehradun	92.60%
2018	10 <sup>th</sup> , C.B.S.E	P D D S Vidya Mandir, Mathura	95.00%

## WORK EXPERIENCE

- **Web Development Intern**

*Kicks Machine, Dehradun*

July 2024 - Aug 2024

Used Selenium, BeautifulSoup, and Pandas for high-scale automated web scraping from sneaker selling websites and extracting product details. Implemented a tracking system for sellers to add order information, along with an admin panel for centralized management.

## PROJECTS <https://pratyush-kargeti.netlify.app/>

- **Retinal Image Analysis for Diabetic Retinopathy**

*Tech Stack- Machine Learning, Deep Learning, Transfer Learning, TensorFlow, Keras, Scikit-Learn, Numpy, Pandas, Matplotlib, Seaborn, PIL, Python*

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.

- **High-scale Automated Web Scraping for Sneaker Product Details**

*Tech Stack- Selenium, BeautifulSoup, Pandas, Python*

Utilized 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.

- **RESTful API Development for Student Records Management**

*Tech Stack- Express.js, MongoDB (with Mongoose), Joi, Postman, MongoDB Compass, Node.js*

Developed a RESTful API for managing student records using Express.js and MongoDB. Implemented CRUD operations to handle student data efficiently. Utilized Joi for data validation and Postman for API testing. Integrated and managed MongoDB database using MongoDB Compass.

- **Personal Portfolio Website**

*Tech Stack- ReactJS, NodeJS, JavaScript, LottieFlies, CSS, Bootstrap, HTML*

Designed and developed a personal portfolio website using ReactJS, NodeJS, and Bootstrap. The website showcases projects, skills, certifications, and contact information in an interactive and visually appealing manner.

- **Brain Tumor Detection using Machine learning and Deep learning**

*Tech Stack- TensorFlow, Keras, Numpy, Python, Machine Learning, Deep Learning, Scikit-Learn*

Tested various Machine learning models and Deep learning models on Brain MRI images dataset from Kaggle. Random Forest classifier worked best for binary classification with the accuracy of 87.75%

- **Real-Time Human Detection and Counting System**

*Tech Stack- TensorFlow, Tkinter, Python, CNN, Computer Vision*

Used TensorFlow Object Detection API to detect and count humans in images, videos, and webcams. Ensured seamless integration between the detection model and user interface. Developed the frontend using Python Tkinter library.

## TECHNICAL SKILLS

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- **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)
- **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, Computer Networks, Operating Systems, Databases, Machine Learning, Data Structures & Algorithms

## SCHOLASTIC ACHIEVEMENTS

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- **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

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- LeetCode: [CodingBoy100](#)
- StopStalk: [algorithmicPK](#)