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**
  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

- **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.

- **High-scale Automated Web Scraping for Sneaker Product Details**   `GitHub`
  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.

- **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.

- **RESTful API for Student Records Management**   `GitHub`
  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.

- **Brain Tumor Detection using ML and DL**   `GitHub`
  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**   `GitHub`
  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

- **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

- **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