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^{th}, C.B.S.E	Doon International School, Dehradun	92.60%
2018	10^{th}, C.B.S.E	P D D S Vidya Mandir, Mathura	95.00%

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 77.89 % for 5-class severity classification.

- **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, or live webcams. Utilized Python Tkinter library for developing the frontend.

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)
- **Machine Learning Tools and Libraries:** Tensorflow, Keras, Scikit-learn, Matplotlib, Numpy, Pandas, 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:** Computer Networks, Operating Systems, Databases, Data Structures & Algorithms, Theory of Computation

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: CodingBoy100
- StopStalk: algorithmicPK