Prerit Gupta

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Work Experience

DESIDOC Lab, DRDO *Delhi, India*

Research Intern *May 2023 - July 2023*

Technical Skills: Python with NumPy, Matplotlib, Keras, Scikit-learn, TensorFlow

- Led a comprehensive assessment of multiple **Supervised Learning** Algorithms to identify and mitigate network attacks on distinct protocols.
- Applied empirical analysis techniques to evaluate algorithm performance, yielding actionable insights for network security enhancement.
- Successfully implemented the **Random Forest** Algorithm, resulting in an accuracy rate of **74%** for network attack detection.

HCL Technologies *Remote*

Software Engineer *June 2023 - July 2023*

Technical Skills: Python with NumPy, Matplotlib, Keras, Scikit-learn, PyWT

- Applied **PyWavelets** Library to compute Complex Wavelets, enhancing the system's ability to analyze facial features accurately.
- Engineered a **Multiscale Energy** computation pipeline, progressively reducing image dimensions for robust feature analysis.
- Employed and evaluated various **Supervised Learning** Models, alongside **ANN** and **CNN** Models (VGG-16, AlexNet), to identify spoofed images effectively.
- Attained **87%** accuracy rate in distinguishing between Genuine and Spoofed Face Images, utilizing the **Random Forest** Algorithm.

Education

Shiv Nadar Institute of Eminence *Noida, India*

BTech. Computer Science Engineering | CGPA – 7.81 *Aug 2020 - Current*

Courses: Data Structures & Algorithms, DBMS, OS, CN, Theory of Computation, Computer Vision, NLP, Software Engineering

Pragnya Junior College *Pune, India*

HSC (12th) | PERCENTAGE – 78.15% *March 2019 - May 2020*

Projects

Object Detector *GitHub*

Technical Skills: OpenCV, Python, NMS, COCO Names Dataset *Jul 2021 - Aug 2021*

- Developed an **Object Detection** Program utilizing OpenCV and Python, effectively leveraging a pre-trained COCO Dataset for accurate and efficient object recognition.
- Skillfully implemented the advanced **NMS** (Non-Maximum Suppression) technique to precisely delineate optimal bounding boxes around identified objects.

Daikoku *GitHub*

Technical Skills: HTML, TailwindCSS, JavaScript, MongoDB. *Sept 2022 - Nov 2022*

- Contributed to the development of Daikoku, a pioneering platform aimed at **bridging the gap** between enterprises in need of rapid software solutions and driven students seeking impactful projects.
- Focused primarily on the **frontend** of the website, showed a commitment to **seamless user experiences** and design aesthetics through the implementation of innovative web technologies.

Skills

Language	Python, Java, HTML, CSS, JavaScript, SQL
Database	MySQL Workbench, PostgreSQL
Frameworks/Libraries	React.js, NumPy, Pandas, TensorFlow, Matplotlib
Tools	Git, Mediapipe

Certifications

- **Frontend Development Professional Certificate** offered by Meta on Coursera
- **Frontend Libraries Certification** offered by FreeCodeCamp
- **Google IT Automation using Python** offered by Google on Coursera
- **Generative AI Certification** offered by Google