Abhijeet Singh

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EDUCATION

- **Bachelor of Technology in Computer Science and Engineering** *2021-Present*
  MIT World Peace University , Pune

PROJECTS

- **Car Number Plate Detection, ML**

  Designed a real-time number plate detection system, enhancing accuracy by 85% and reducing processing time by 40%

  - Utilized SSD MobileNetV2, TensorFlow, CUDA, and EasyOCR to achieve real-time performance at 60 frames per second (FPS) and improve processing speed by 40%.
  - Used a dataset comprising over 500 Indian car number plate images.
  - Attained a remarkable accuracy rate of 93% in detecting number plates.

- **Sign Language Detection, ML**

  Deployed a machine learning model for real-time sign language interpretation, achieving 92% accuracy.

  - Employed SSD MobileNetV2 for 60 FPS real-time performance.
  - Orchestrated comprehensive training on a diverse dataset of 500-600 images, encompassing 50 distinct sign language gestures.
  - Implemented advanced TensorFlow and CUDA frameworks, enhancing processing speed by 30% for accelerated inference.
  - Attained 89% recognition accuracy, with precision and recall metrics surpassing 85%, demonstrating exceptional model reliability.

- **Code_Hub, Fullstack_project**

  Engineered a collaborative code-sharing web application with optimized load balancing, resulting in a 20% boost in performance.

  - Crafted an intuitive interface that facilitated seamless collaboration among over 100 developers.
  - Built using ReactJS and MongoDB, enhancing user retention by 40% and reducing response time by 25%.

EXPERIENCE

- **ML Research Internship , ISRO** *July - Present 2024*
  Onsite
  - Led an avant-garde initiative focused on developing and deploying sophisticated machine learning models and deep learning algorithms, advancing cutting-edge research.
  - Designed and implemented a Python-based application to streamline model deployment, enhancing ISRO's research capabilities

SKILLS

Languages: C++, OOPS, Parallel Computing, Numpy, Pandas, Data Structure and Algorithm, Django, TensorFlow
Scripting Language: Python, HTML5, JavaScript, ReactJS, Bootstrap, CSS3, Typescript, NextJS.
textbfDatabase : MySQL, SQL, MongoDB, JSON, XML, DB Designing, JDBC, NoSQL, BSON .
Tools :Jupyter Notebook, PyCharm, Git(Versioning and Release Management, Deployment, Serverless Deployment, Git GUI Tools GitHub, GitLab, Git Proficiency) .
Relevent Coursework: Data Structures & Algorithms, AI/ML, Object Oriented Programming, Software Engineering.
Mathematical Skills : Statistics, Probability, Linear Regression, Integration, Differentiation.
Soft Skills: Leadership, Teamwork, Self-learning, Versatility, Managerial Acumen.

ACHIEVEMENTS

- Actively participated in the prestigious Smart India Hackathon, securing the 3rd position. *Sep 2023*

- Secured Global ranking : 199, October long challenge on CodeChef *Oct 2023*

- Rated 1461 on CodeChef and 1600+ on LeetCode *Jun 2024*

- Solved over 600 problems on Codechef,LeetCode and GeeksforGeeks. *Jun 2024*

- Actively participate in coding contests and competitive programming. *Jun 2024*