Chaganti Venkatarami Reddy

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Education

- **Indian Institute of Information Technology Sonepat** — Haryana, India
  Bachelor of Technology - Computer Science & Engineering; SGPA: 9.50/10.00 — *December 2020 - Present*
  Courses: *Data Structures, Analysis Of Algorithms, Object Oriented Programming, Databases, Web Development, Operating Systems, Networking, Machine Learning, Data Analysis, Soft Computing, Operational Research*
- **Board of Intermediate Education** — Andhra Pradesh, India
  MPC; GPA: 9.75/10.00 — *April 2018 - March 2020*
- **Board of Secondary Education** — Andhra Pradesh, India
  Physical Sciences; GPA: 10.00/10.00 — *March 2017 - March 2018*

Skills Summary

- **Languages**: C, C++, **Python**, MySQL, HTML, CSS, JavaScript, Bash, Latex, JSON
- **Frameworks**: **TensorFlow**, OpenCV, Pandas, Numpy, Matplotlib, Flask
- **Tools**: **GIT** & VC, **Docker**, VS Code, Jupyter Tools, **MATLAB**
- **Techniques**: Machine Learning, Deep Learning, Optimization Problems
- **Platforms**: **Linux** Commands & Administration, Windows, Web, Mac OS
- **Soft Skills**: Leadership, Problem-Solving, Multi Tasking, Public Speaking, Time Management

Experience

- **IIT Bombay - Machine Learning Research Intern** — Remote
  Project: Aadhar Masking - PDF Edition — *October 2022 - December 2022*
  - **Computer Vision**: Designed and implemented a robust Computer Vision Algorithm, leveraging OCR Tools.
  - **Algorithm Development**: Spearheaded the design and implementation of a mathematical algorithm, resulting in a 20% improvement in system performance. This achievement contributed significantly to project enhancements and played a pivotal role in boosting overall operational efficiency.
- **Feynn Labs - Machine Learning Intern** — Remote
  Project: EV Market Segmentation in India — *April 2022 - June 2022*
  - **Leadership**: Spearheaded a project team of 3 members, overseeing the successful completion of tasks and ensuring alignment with strategic goals.
  - **Market Segmentation**: Conducted an exhaustive analysis of the Electric Vehicle Market in India, utilizing advanced segmentation techniques and generating a predictive model.

Projects & Contributions

- **Image Segmentation Using PSO (ML, Particle Swarm Optimization)-[Associated with IIIT Sonepat]**: Image Segmentation using PSO is an optimized version of Image segmentation method using meta-heuristic algorithms. Tech: Python, SKLearn, PSO, OpenCV, Docker, VS Code (May 2023) - Github
- **Kelly Betting & Football Prediction (Machine Learning, Data Analysis)-[Associated with IIIT Sonepat]**: This is a Data Science project in which creating a machine learning model to predict a football match and betting prediction... Tech: Python, SKLearn, Machine Learning Algorithms, Pandas, Seaborn, Pickle (Nov 2022) - Github
- **Monkey Detection (Machine Learning, Computer Vision)-[Associated with IIT Bombay]**: Monkey Detection is a Computer vision project which detects monkeys using You Only Look Once (YOLO) Version 7 model and created endpoints using flask framework. Tech: Python, YOLO V7, Machine Learning Algorithms, OpenCV, Flask (Sept 2022) - Github
- **Face Mask Detector(Machine Learning, Computer Vision)-[Associated with IIIT Sonepat]**: Face Mask Detection System built with OpenCV, Keras/TensorFlow using Deep Learning and Computer Vision concepts to detect face masks in static images as well as in real-time video streams. Tech: Python, OpenCV, Keras Machine Learning Algorithms, Jupyter Notebook (Nov 2021) - Github

Achievements

- Attained the **top position** within the university, securing the 1st rank and achieving a remarkable SGPA of 9.57, showcasing exceptional academic excellence and dedication.
- Led a team to secure 1st place in the Private Dataset of the NPCI Hackathon (October 2022) on Kaggle. Created and deployed an innovative Credit Card Default Risk Analysis solution, achieving a score of 0.83. - Kaggle
- Achieved 5th place in the Public Dataset of the NPCI Hackathon (October 2022) on Kaggle. Developed and implemented a highly accurate Online Peer to Peer Lending Analysis model with a score of 0.99948. - Kaggle
- Successfully cracked the JEE Mains (Joint Entrance Examination for Engineering) with a remarkable score of **98.2 percentile**. (2020)
- Achieved exceptional ranks of 2679 and 4088 in the highly competitive AP & TS EAMCET examinations, showcasing exceptional problem-solving skills and mastery of key concepts. (2020)