Sandeep Kashyap *AI/ML Engineer*

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Bangalore

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My_Portfolio

PROFILE

I'm an aspiring machine learning engineer working on uncovering insights and solving complex problems using data. With a strong foundation in mathematics and programming, I excel in, **Machine Learning** and **Deep Learning**. I'm dedicated to expanding my knowledge and skills in this ever-evolving field of artificial Intelligence and possess strong communication abilities to convey data-driven insights effectively.

SKILLS

- python
- Tensorflow, Keras, scikit-learn
- NumPy, Pandas, Seaborn
- text preprocessing(NLTK/Gensim)
- supervised learning
- Machine Learning Algorithms
- Ensemble techniques
- Data manipulation,preprocessing
- excellent communication
- Decision trees, SVM, random forest, neural networks
- Computer Vision (image recognition/transfer learning)
- Git
- Team player, adaptable, quick learner
- Deep Learning (neural network)
- Object Detection
- Natural Language Processing
- LSTM/GRU/Transformer/Bert

WORK HISTORY

ML Intern 08/2022 – 10/2022

iNeuron | Bangalore

- Developed proficiency in Python, and gained experience in AI with popular machine learning libraries like **TensorFlow** and **Scikit-learn**.
- Gained hands-on experience with data preprocessing, feature engineering, and model training and evaluation techniques.
- Learned about various algorithms like **linear regression**, **random forest**, support vector machines, and **neural networks**, and gained an understanding of when and how to apply them to solve real-world problems.

Project Intern 03/2023 – 06/2023 | Bangalore

iNeuron | Bangalore

- Acquired foundational understanding of Deep Learning principles and real-world project handling for AI applications..
- Immersed in end-to-end life cycle of Deep Learning projects, from inception to deployment.
- Gained hands-on experience in data preprocessing, model selection, hyperparameter tuning, and performance evaluation.
- Gained a profound understanding of best practices and industry standards, ensuring the development of robust and efficient solutions.

PROJECTS

Waste Classification and Management system 11/2022 – 01/2023

Computer Vision

- Developed an AI-based waste management system using TensorFlow for **classification, waste detection**, and management of different waste materials.
- Achieved **90% accuracy** in waste classification through the training of a custom CNN model using **20000** litter images.
- Performed real time object detection on wastes using transfer learning achieving accuracy of 80% and successfully integrated in the web app.
- Built a web application integrating classification and detection models using **Streamlit** as well as an interface for users to report waste issues and hazards, and successfully deployed it on Streamlit **Cloud**.
- **Tensorflow**, **Transfer Learning,** Numpy, Streamlit, pycharm, object detection api, are the technologies used.

Loan Eligibility Predicting Web app 06/2021 – 08/2021

- A machine learning web app which predicts whether a person is eligible for taking home loan from an insurance company or not with an accuracy of **85%**.
- Fine Tuned the model and improved the accuracy to 87%.
- Followed modular coding and created pipelines for data ingestion, data transformation, model training, logging and exception handling.
- Streamlit, **SVM**, scikit-learn, **mongodb**, pycharm(Development) are the major technologies used.
- The web app has been **dockerized** and deployed on **AWS Ec2** and **Google App Engine.**

UGV_Agriculure solution 11/2022 – 12/2022

- Developed an intuitive AI based **web interface** enabling seamless upload and classification of plant leaf images using a trained **custom model**.
- Achieved remarkable results by training a state-of-the-art Convolutional Neural Network (CNN) model on a comprehensive dataset of **15000** healthy and diseased plant leaf images, surpassing **95% accuracy**.
- Employed cutting-edge technologies including **TensorFlow**, **Keras**, NumPy, and Streamlit to ensure robust implementation, efficient processing, and an exceptional user experience.

EDUCATION

Computer Science and Engineering 04/2018 – 07/2022 | Bangalore, India

Visvesvaraya Technological University (*CGPA- 8.56/10*)