

SENAJITH S R

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EDUCATION

SRI VENKATESWARA COLLEGE OF ENGINEERING

B.TECH ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Chennai

Cum. GPA: 8.8

SKILLS

Python

Java

SQL

HTML

CSS

Bootstrap

Machine learning

Deep learning

TOOLS AND FRAMEWORKS

Tensorflow

MySQL

MS Excel

ACHIEVEMENTS

Finalist in **Analytics Showdown**

PARTICIPATIONS

- Participated in Smart India Hackathon
- Participated in 24 hours Hackathon | FODSE and IETE of SVCE

CERTIFICATIONS

- Python for everybody | COURSERA
- Neural network and deep learning | Deeplearning.ai
- Blockchain and its applications | NPTEL

POSITION OF

RESPONSIBILITY

ECELL-SVCE | MARKETING ASSOCIATE

Being in the part of core team led marketing initiatives and contributed to organizing club events.

EXPERIENCE

IIT-MADRAS PRAVARTAK TECHNOLOGIES | INTERNSHIP

INDIVIDUAL INCOME PREDICTION | PYTHON, NUMPY, PANDAS, ML ALGORITHMS

Jun 2023 – Aug 2023 | Chennai

- Created a predictive model in Python using pandas, scikit-learn, and seaborn to forecast individual income based on demographic and financial features.
- Applied data preprocessing methods and feature scaling for enhanced model accuracy and used diverse regression algorithms, including Linear Regression, Decision Tree, RandomForest, and SVR.

PROJECTS

COPD SEVERITY ASSESSMENT | PYDUB, LIBROSA, RESNET50

- Developed a multi-class classification model for assessing COPD severity using patients lung sounds.
- Implemented data preprocessing, data augmentation and feature extraction for the audio file.
- Leveraged RESNET-50 architecture for training, achieved 90 percent accuracy on the test set.

WEEDOUT | PYTHON, PANDAS, NUMPY, FLASK | LINK

- Developed an open-source data preprocessing package and accompanying website, enhancing accessibility for data scientists.
- Led efforts to implement key functionalities in WeedOut, including feature scaling, outlier detection, null value handling, and correlation management and more.

RESUME HELPER | PYPDF2, STREAMLIT, GOOGLE'S GEMINI | LINK

- Designed and implemented a Resume Helper application using Streamlit and Google's Generative AI (Gemini Pro)
- This tool automatically analyzes resumes, aligns them with job descriptions, and provides personalized recommendations for enhancements, addressing individual user needs.

AVALANCHE VICTIM LOCALIZER | YOLO, PYTHON

- Developed an innovative avalanche rescue system using DJI Matrice 300 RTK drone with AI/ML capabilities
- Integrated Thermal Camera utilized YOLO for person spotting and detection

PUBLICATIONS

IEEE CONFERENCE | LINK - APRIL 2024

Chronic Obstructive Pulmonary Disease severity classification using lung sound