Prudhvi Garapati

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career objective.

Looking for a challenging software engineer position in well reputed company where I can leverage my skills & knowledge and want to work in cutting- edge technologies

education.

Gudlavalleru Engineering College | 2021

B. Tech, Computer Science & Engineering
CGPA: 8.98

Vidyalaya Junior College | 2017

Intermediate, MPC, 96.6%

Montessori High School | 2015

SSC, 9.8 CGPA

skills

- **Languages:** Python, Java, C, HTML5, CSS3, JavaScript, C#
- **Applied CS:** Machine Learning, Deep Learning, Data Science, Web development
- **Tools:** Git, MySQL, Amazon Web Services, Notebooks (Jupyter, Kaggle, Google Colabs etc..), Visual studio, GitHub
- **Technology stack:** React.js, jQuery, Bootstrap, tensorflow, OpenCV, Scikit-learn, keras, numpy, pandas, matplotlib

exposure.

Intern at SmartBridge

Machine learning & Deep learning Intern | summer 2020

- Acquainted and enhances the concepts of data science and machine learning.
- collected 10+ datasets from different resources and applied different data preprocessing and visualization techniques
- Implements different regression, classification and clustering algorithms such as linear regression, svm, logistic regression, neural networks and k-means on dataset and experiment with different hyper parameters.
- Hands on experience and understands the pipeline of the machine learning systems

Published a Python Package on PyPI : py-AutoML

- Py-AutoML is a minimalistic low code machine learning library in python.
- Extremely useful for small scale projects and acts as a wrapper which simplifies our coding task
- Can define and implement popular neural network such as AlexNet, GoogleNet, LeNet5, VGG16, Deep CNN with ease and also helps us to visualize the neural network architectures.

Check out: pip install py-automl

Student Mentor | aug 2017 – jun 2018

- Personally mentored and taught 5 students over a course of 1 year.
- It's really fun and a great learning curve to help and taught peer students

Amazon webservices workshop | may 2019

Familiar with cloud concepts and the components of aws such as EC2, S3

Web technologies workshop | dec 2018

hands on the web concepts and technologies and able to built end to end interactive web applications

personal projects.

Facial Emotion detection:

Deep learning and Image Processing Project

- Here a convolution neural network is trained with a Kaggle dataset which consists of 35000+ images.
- This dataset is labeled with 6 different basic Emotions such as Happy, Angry, Sad, Neutral, Disgust, Surprise.
- trained the model upto 200 epochs with batch size of 32
- Got 68% Accuracy for cross validation data set.

  Link: **https://github.com/PrudhviGNV/FacialEmotionRecognition-usingCNN**

Attendance using Face Recognition

An Open CV Project

- automate the manual work of taking Attendance with Face Recognition Technology
- Implement LHBP Algorithm (Face recognition algorithm) using OpenCV
- Using Web camera, we detect the faces and compute binary pattern histograms of detected faces and compare them with binary patterns present in the database
- Design an interface to provide abstraction for taking images and train the model and for granting attendance.

  Link: **https://github.com/PrudhviGNV/FaceRecognisationBasedAttendence**

Path Finding Visualizer- A React Application

- A fun project to visualize a path between two points in a grid
- Implements Dijkstra's, A*, Bread First Search, Depth First Search Algorithms to visualize
- Created and built this app using react and bundles this app in production mode

  Live Link: **https://prudhvignv.github.io/pathFinderVisualizer/**

Speech Emotion recognition:

- Uses RAVDESS dataset for audio files which are labelled with available 4 emotions.
- Extracts audio features such as MFCC, Chroma, MEL Spectrogram Frequency, Contrast, Tonnetz using Librosa library
- Using these features, I trained different Machine Learning algorithms such as MLP, SVM, Decision Tree, CNN, Random forest

  Link: **https://github.com/PrudhviGNV/SpeechEmotionRecognization**

for more projects, please visit: prudhvignv.github.io

certifications.

- **Google IT Support professional certification**
- **Data Science Professional Certification by IBM**
- **Deep Learning Specialization by deeplearning.ai**
- **Machine Leaning Course by Stanford University**
- **DevOps Culture and Mindset, University of California, by coursera**
- **Python data structures by coursera**
- **Digital Marketing by GoogleDigitalGarage**
- **Java Programming by NPTEL (Elite + Gold)**

achievements & activities.

- Secured 1st place in coding competition at college level.
- Top 5% in NPTEL Java with Elite + Gold badge.
- Took part in several Hackerthan challenges (Smart India hackerthan, hackerrank challenges.)
- Participated in chess tournament at district level
- Medium Blogger:
  - Writes blogs on technical contents.
  - Link:https://medium.com/@prudhvi.gnv