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: 9.0

Vidyalaya Junior College | 2017

Intermediate, MPC, 96.6%

Montessori High school | 2015

SSC, 9.8 CGPA

skills.

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

experience.

Intern at SmartBridge

Machine learning & Deep learning Intern | summer 2020

- Acquainted and enhances the concepts of data science and machine learning
- collected data 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 with different hyper parameters
- Hands on experience and understands the pipeline of the systems

Published a Python Package : 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.

Check out: pip install py-automl

Student Mentor

- 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 data set which consisting 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 32
- Got 65% Accuracy for cross validation data set.

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

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

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

Face Recognition based Attendance

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**

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 certificate**
- **Machine Leaning Course by Stanford University**
- **Neural Networks and Deep Learning by deeplearning.ai**
- **DevOps Culture and Mindset, University of California, by coursera**
- **Python data structures by coursera**
- **Java Programming by NPTEL**
- **Digital Marketing by GoogleDigitalGarage**

achievements & activities.

- Active member in coding, environmental clubs
- 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