Pradeep Kumar Nalluri

Education

2015–Present **Bachelor of Technology**, *Mahindra École Centrale*, Hyderabad, *GPA–8.4/10*.
Computer Science and Engineering

Relevent Course Work

Mathematics Probabilty and Statistics,Calculus,Linear Algebra,Real Analysis,Computational Mathematics

Computer Science Data Structures and Algorithms,Object oriented programming,Operating Systems,Computer Architecture

Electrical Signals and Systems,Basic of Electrical and Electronics Engineering

Publications

April 18– **Fourth Order Nonlinear Diffusion Filters for Multiplicative Noise Removal**, *ICISP*.

- Proposed a New Fourth Order Diffusion Filter for removing multiplicative noise from images.

Internship Experience

May 18– July 18 **Info Science Internship**, *T-Hub*, Hyderabad.

- Worked as a backend developer for T-Hub website
- Worked on the server setup on Google Cloud Platform using nginx and gunicorn

November 17– April 18 **Research and Development Internship**, *Tech Mahindra*, Hyderabad.

- Worked on Virtual Survillance.
- Studied, implemented and compared different algorithms for face detection,recognition and auhentication.

May 17– July 17 **Research Intern**, *Mahindra École Centrale*, Hyderabad.

- Studied and Implemented various types of Neural Networks.

Projects

Diffrential evolution **Optimizing makespan and Energy during scheduling of Jobs on cloud servers**.

- Studied various papers on Genetic Algorithms and Diffrential Evolution Algorithms(NSDE-II) and used them in scheduling the Jobs on sever based framework for optimizing Energy Consumed and Makespan during the process.

Image Processing **Removal of Speckle Noise From Synthetic-aperture radar(SAR) Images**.

- Studied various research papers on Speckle Noise level estimation and incorporated them in the available PDE filters for better removal of Speckle noise from SAR Images.

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Machine Learning
Implementation of Back Propagation Algorithm through Time for a RNN.
- Implemented of Back Propagation through Time Algorithm in python from scratch using numpy and NLTK library for prediction of the next word in a sentence.

Machine Learning
Implementation of Back Propagation Algorithm for a Feedforward Neural Network.
- Implementation of Back Propagation Algorithm in python from scratch using numpy module.

Machine Learning
Classification of gender of a person based on his/her name.
- Created a LSTM model for classification of gender a person based on name using Keras module.

Operating System
Simple shell implementation.
- Wrote a shell based client in **C** and implemented various features like pipe, signal handling, foreground and background processes.

Web Dev
NewsFeed Bot.
- Create a bot on telegram which delivers News based on category requested.
- Used urllib3 library in **Python** to use Rest-API's and hosted this bot in Heroku.

Skills & Interests

General: Optimization,Machine Learning,Image Processing

Languages: Python,C,Java

Tools: HTML,MATLAB,Django,MySQL,Git,Google Cloud,AWS

Certifications

March 2017: DELF A1