

Pradeep Kumar

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An electronics and software enthusiast, currently pursuing electronics and communication degree in the final year. I have an equal passion for electronics as much as I have for computer science, especially in the field of data and machine learning. I like to combine the knowledge of my cross domains and solve real-world problems.

Education

SLN college of Engineering.

BACHELOR OF ELECTRONICS AND COMMUNICATION, GPA: 8.0/10.0

- Visvesvaraya technological university, Belgavi,Karnataka,India

Raichur, Karnataka, India.

May 2020

Pramana PU College.

INTERMEDIATE - 90.34%

- Karnataka State Board

Raichur, Karnataka, India.

May 2016

SKPH school.

MATRICULATION - 75%

- Karnataka State Board

Raichur, Karnataka, India.

May 2014

Internships

Cranes Varsity

EMBEDDED SYSTEMS TRAINEE

- used knowledge of embedded C to work on LPC2129 ARM7 and LPC1768 ARM cortex M3.
- worked on a project real time pantry system.

St marks Rd,Bangalore

jul. 2019 - Aug. 2018

Skills

Programming Languages

Python, C, C++, Java, Verilog HDL,Assembly Programming

Frameworks

TensorFlow,Keras,Pytorch,OpenCV

Tools & Technologies

Anaconda Distribution,Matlab, Xilinx ISE, Keil MicroVision ,Android Studio

Industry Knowledge

Computer Vision,Deep Learning,Machine Learning,Reinforcement Learning,CNNs,RNNs,GANs,VLSI

Digital Communication, Digital System Design,DSP,Embedded Systems

Soft Skills

Teamwork,communication skills,Problem Solving Skills, Adaptability

Other skills

Raspberry pi,Arduino,Intel 8086,Intel 8051,ARM Cortex M3(LPC1768),ARM7TDMI(LPC2129),operating systems

Major Projects

Machine Translation

NATURAL LANGUAGE PROCESSING

- Model has been trained on a english to french translation text corpus
- Model achieves 95 percent accuracy in translating sentences.
- The translation project utilizes the architecture of encoder- decoder for producing variable length translations.

Udacity - online

Oct 2019 - Nov 2019

Automatic Image Captioning

CONVOLUTIONAL NEURAL NETWORKS,LSTMs,DEEP LEARNING

- Used the famous COCO data set to train the model.
- Succeeded in generating highly accurate captions.

Udacity - Online

Sep 2019 - Oct 2019

Generating faces using GAN's

DEEP LEARNING

- Implemented a Generative adversarial network to produce the fake faces of celebrities.
- Implemented Cycle GANs for style transfer.

Udacity - online

Aug 2019 - Sep 2019

Quad copter using Arduino as Flight Controller

SLN College - Offline

EMBEDDED SYSTEMS

Feb 2019 - Mar 2019

- This project unlike the first project which is software based self learnt model and trained in simulated environment, is a deterministic model written using C language in arduino IDE.
- This drone/Quad copter is Hardware project which was prepared in order to participate in competition held in the college. The Quad-copter project has won the competition.

Certifications

Natural Language Processing Nanodegree

Udacity - online

UDACITY

Oct 2019 - Now

- Natural language processing (NLP) is a subfield of linguistics, computer science, information engineering, and artificial intelligence concerned with the interactions between computers and human (natural) languages, in particular how to program computers to process and analyze large amounts of natural language data.
- Successfully completed projects like Facial Key point Detection, Automatic Image Captioning and Simultaneous Localizing and mapping(SLAM))

Computer Vision Nanodegree

Udacity - online

UDACITY

Sep 2019 - Oct 2019

- Computer vision is an interdisciplinary scientific field that deals with how computers can be made to gain high-level understanding from digital images or videos. From the perspective of engineering, it seeks to automate tasks that the human visual system can do.
- Used Hidden Markov Models to tag words with parts of speech. Built a Machine translation model for language translation for English to French.

Deep Learning Engineer Nanodegree

Udacity - online

UDACITY

Aug 2019 - Sep 2019

- Deep learning is a class of machine learning algorithms that uses multiple layers to progressively extract higher level features from the raw input
- Successfully completed projects involving working in GANs(generating faces), LSTMS(generating TV scripts), CNNs(Dog Breed Classifier)

Machine Learning Engineer Nanodegree

Udacity - online

UDACITY

Mar 2019 - Aug 2019

- advanced machine learning techniques and algorithms, including deployment to a production environment

Machine Learning

Coursera - online

COUSERA

Feb 2019 - Apr 2019

- an online non-credit course authorized byStanford Universityand offered through Coursera

Achievements

Winner of the Intra college Project Exhibition

SLN college,Raichur

Mar 2019

- The project "Quad copter using arduino as flight controller" our my team has won the Intra college competition.

Languages

English
Kannada
Hindi
Telugu

Read-Write-Speak
Read-Write-Speak
Read-Write-Speak
Read-Speak

Interests

Multiplayer Gaming, Cricket, Anime, Netflix, AI