Pradosh Priyadarshan

codepradosh || G kanha930@gmail.com || in pradosh priyadarshan

EDUCATION

VSSUT , BURLA
B.Tech Computer Science
Aug 2017 - May 2021(expect)
Burla,Odisha
Cum. GPA: 7.20 / 10.0

D.A.V PUBLIC SCHOOL
Grad : May 2017
Bhubaneswar,Odisha,India
Senior Secondary Science
AISSCE (2015) : 10.00 CGPA
AISSE(2017) - 91.40 Percent

COURSEWORK

• Deep Learning Nanodegree
Offered by: Udacity
Instructor: Luis Serrano
NanoDegree Certification
• Machine Learning Engineer
Offered by : Udacity
Instructor: Luis Serrano
NanoDegree Certification
• Deep Learning Specialisation
Offered by : Deeplearing.ai
Instructor: Andrew NG
Specialisation Certification
• Algorithms(Specialization)
Offered by: Stanford University
Instructor: Tim Roughgarden
Specialisation Certification

SKILLS

• Machine Learning
• Deep Learning
• Natural Language Processsing
• C++
• Python
• Tensorflow
• Keras
• SQL

HACKATHONS

• Utkal Hacks 2.0 (Rank - 3)
- Designed a AI driven map
"Shield Walker" that takes you
home safely.
• InnoBuzz Dwitiya(Rank-4)
- Awarded most innovative
project
- Got overall 4th place at VSSUT
InnoBuzz 2.0, and also awarded
the Judges most Innovative
project for our project on "Early
Detection of Parkinsons
Disease using Voice Samples".

WORK EXPERIENCE

DEFENCE RESEARCH AND DEVELOPMENT ORGANISATION(DRDO) | Natural Language Processing Intern
MAY 2019 - JUNE 2019 | ITR DRDO CHANDIPUR,BALASORE,ODISHA

• Developed an indigenous speech recognition system that reduce the involvement in Electro-Optical Tracking System control panel to a single personal to both handle the frame windows and control switches through voice recognition and authentication through offline API .
• Worked with team on speech recognition and authentication using offline speech recognition engine Sphinx and integrated it with missile voice authentication system.

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING | High Performance Computing and Artificial Intelligence Intern
Dec-2019 - Jan-2020 | Pune, India

• Worked on how to use Intel's Propriety tools like: VTune, ITAC and Quantum Espresso.and high performance computing libraries like Open MP and MPI.
• Developed a web-app which will take the patient's chest x-ray image as the input and using a convolutional neural network predict whether the patient is having pneumonia or not.

INDIAN INSTITUTE OF TECHNOLOGY, BHUBANESWAR | Machine Learning Research Intern
March 2020 - April 2020 | Bhubaneswar,India

• Deployed various machine learning models to predict the occurrence of cardiovascular disease in humans of different age groups.
• Best performing model was K-NN which gave an accuracy of 87 percent.

TECHNICAL PROJECTS

1. PERSONALIZED-CANCER-DIAGNOSIS |Project
•Implemented data cleaning,univariate analysis then converted text-to-vector using TFIDF.
•Built a model which predicts the mutation by training 2k points and reduced log-loss.
• Built a model which predicts the mutation by training 2k points and reduced log-loss from 2.505 to 1.057.

2.QUORA QUESTION PAIR SIMILARITY PROBLEM |Project
• Deployed a model which identifies questions asked on Quora are duplicates of questions that have already been asked.Here tasked with predicting whether a pair of questions are duplicates or not.
•Implemented machine learning model to reduce test log-loss from 0.88 to 0.36. Best Performing model is XGBoost.

3. HUMAN ACTIVITY RECOGNITION PROBLEM |Project
•Implemented RNN with multiple LSTM algorithm layers on a dataset which contains data collected by accelerometer and gyroscope sensors of mobile phone in order to classify the human activity.
• Deployed Machine Learning Models:highest accuracy of 96.50 percent with linear SVM.

4.. TAXI DEMAND PREDICTION NEW-YORK CITY |Project
•Designed a model for a given location which can predict the number of pickups in that given location. The prediction result can be transferred to the taxi drivers via Smartphone app.
•Built and deployed machine learning models like random forest,GBDT and built Time Series based models like simple, weighted and exponential moving average.