

IRUVANTI GAUTAM SRINIDHI

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ACADEMIC QUALIFICATIONS

Bachelor of Technology (Computer Science Engineering with Specialization in Data Science), PES University, Bengaluru, August 2016 - August 2020, CGPA: 8.45

Relevant Coursework:

Artificial Intelligence
Machine Learning
Natural Language Processing
Reinforcement Learning
Introduction to Data Science
Introduction to Big Data

PROFESSIONAL EXPERIENCE

Organization: Société Générale, Bengaluru, August 2020 - Present

Designation: Software Engineer

Roles and Responsibilities:

- Extensively worked with Informatica, a data integration tool to extract, transform and load data according to business requirements.
- Development of automation scripts using python and shell scripting.
- Experience in developing SQL queries primarily with Teradata.
- Hands on devops experience of the migration of code across environments using Git commands.
- Worked with scheduling tools like Control-M to schedule jobs in UAT and production environments.
- Good understanding of Agile Methodologies.
- Tools Used: Teradata, Informatica, Unix, Git and Control-M

Organization: Play Games24x7, Bengaluru, January 2020 - May 2020

Designation: Data Science Intern

Roles and Responsibilities:

- Responsible for developing an email classifier using BERT to classify customer emails into categories provided by the customer support team.
- Developed an intelligent marketing tool to be used within the organization for visualizing data and running predictions on the models created by the data science team.
- Tools Used: TensorFlow, Keras and Shiny (a package to develop web applications using R)

Organization: Play Games24x7, Bengaluru, May 2019 - July 2019

Designation: Data Science Intern

Roles and Responsibilities:

- Developed a marketing framework to evaluate the performance of various advertising campaigns being run by the company.
- Tools Used: Pandas, Scikit-learn and Seaborn

Organization: KWIK 24, Bengaluru, May 2018 - July 2018

Designation: Intern

Roles and Responsibilities:

- Developed a web application to download video footage from remote servers, to detect and analyse fraudulent transactions.
- Tools Used: Unix, HTML, PHP, Javascript

PROJECTS

Title: Image Super Resolution and Deblurring Using GANs

Location: PES University

Duration: 01/01/2020 - 31/06/2020

Team Size: 3

Brief Objective: The goal of the project was to create and develop a machine learning pipeline comprised of a Deblur Generative Adversarial Network (GAN) and a SuperResolution Generative Adversarial Network (GAN) which work in unison in order to convert and transform low quality blurred images into higher quality super resolved unblurred images.

Tools: Python, TensorFlow, Keras and Pandas

Title: Simulation of Cricket matches

Location: PES University

Duration: 01/01/2019 - 31/05/2019

Team Size: 3

Brief Objective: This project aims at simulating the outcome of cricket (IPL) matches using two approaches -

- 1) The first is a probability based approach which uses ball by ball data to get the probabilities of all possible outcomes.
- 2) The second approach uses a decision tree classifier which is implemented using pyspark MLlib.

Tools: Python, Beautiful Soup, Pandas and Pyspark

Title: Deep Learning enabled Food Blog

Location: PES University

Duration: 01/08/2019 - 31/12/2019

Team Size: 3

Brief Objective: This project aims at creating a food blog where users can upload pictures, provide descriptions for their pictures, write comments and search for posts by other users. The blog also has a smart component which detects the type of cuisine of the food in the picture.

Tools: JavaScript, HTML, CSS, MongoDB, Flask, and TensorFlow

Title: Code Couch - A desktop coding platform

Location: PES University

Duration: 01/08/2019 - 31/12/2019

Team Size: 8

Brief Objective: Our project aims to create a multipurpose computer science portal for students and teachers to aid in the student's evaluation process. The portal provides a platform for teachers to provide tests to students who can undertake these tests and hone their coding skills. It provides a user-friendly coding interface with a variety of languages in which students can code. The application shifts the major portion of the server load to the client-side by evaluating code against test cases on the client-side in a sandboxed environment.

Role: My role in the project was to develop the front end using Qt .

Tools: Qt , Postman and Java

Title: Real or Not? NLP with Disaster Tweets (Classification using Google BERT)

Location: Personal project

Duration: 01/01/2020 - 01/02/2020

Team Size: 1

Brief Objective: The aim of this project is to create a classifier which tries to predict if a tweet is related to a disaster or not. The classifier is built using the pre-trained BERT model.

Tools: Python , Keras and Pandas

Title: Stock Market Charting Application

Location: Société Générale training

Duration: 01/07/2020 - 17/08/2020

Team Size: 1

Brief Objective: Developed a full-stack stock market charting application to chart a company's performance over a period of time. The application's front end is developed using Angular and the backend is developed using Spring Boot. The Spring Boot backend is built using REST APIs and a MySQL database.

Tools: Spring Boot , Spring , Java , MySQL , Postman and Angular

PAPER PRESENTATIONS AND PUBLICATIONS

Image Super Resolution and Deblurring Using Generative Adversarial Networks, with K P Arjun, Krishna Sidharth and V R Badri Prasad, The Eleventh International Joint Conference on Advances in Engineering and Technology, AET 2020 , December 2020

CERTIFICATIONS

- Deep Learning Specialization by DeepLearning.AI
 - Neural Networks and Deep Learning
 - Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization
 - Structuring Machine Learning Projects
 - Convolutional Neural Networks
 - Sequence Models
- Tensorflow in Practice by DeepLearning.AI
 - Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
 - Convolutional Neural Networks in TensorFlow
 - Natural Language Processing in TensorFlow
 - Sequences, Time Series and Prediction
- Reinforcement Learning Specialization by University of Alberta
 - Fundamentals of Reinforcement Learning
 - Sample-based Learning Methods
 - Prediction and Control with Function Approximation
 - A Complete Reinforcement Learning System (Capstone)
- The Data Scientist's Toolbox by John Hopkins University