

Experience

Structural Design Engineer, July 2019-Feb 2020, CGPA 8.36/10.00

Tata Consultancy services (EIS-IoT)

- Job Profile was of Naval Architectural Consultant. My duties include calculations, analysis, designing and making feasibility reports of various ship structures and structural problems. Tools Used: Advance Excel, Python, CAD, ANSYS.

Technical Skills

Languages: Python, HTML5, CSS, C++, C

Frameworks/Libraries: BeautifulSoup, Dash, Django, Keras, Kivy, Matplotlib, NLTK, NumPy, OpenCV, Pandas, PySpark, Scikit-Learn, SciPy, Scrappy, Seaborn, Selenium, spaCy, TensorFlow, Tidyverse, tKinter

Methods: Cross Validation, Data Wrangling and Visualization, Deep Learning, Ensemble, Exploratory Data Analysis, Machine Learning (Supervised and Unsupervised), Casual and Statistical Inference, NLP, Predictive Modelling, Principal Component Analysis, Regressions, Time Series Analysis and SEO.

Database: NoSQL, MySQL, MongoDB(Beginner)

Tools: AWS, Anaconda, Git, Jupyter, MS-Office, Spyder, Tableau. PowerBI, WordPress

Certifications

Data Science with Python, July 2020, DataCamp.com

Certifications include: 23 courses, 6 projects and 3 case studies related to import, clean, manipulate, and visualize data. Also statistical and machine learning techniques, decision tree, natural language processing (NLP).

Machine learning with Python, July 2020, DataCamp.com

Certifications include: 23 courses pertaining to process data for features, train your models, assess performance, and tune parameters for better performance. Plus, natural language processing, image processing, and popular libraries such as Spark and Keras.

Education

Bachelor of Technology in Naval Architecture and Ocean Engineering, July 2019, CGPA 8.36/10.00

Indian Maritime University, Visakhapatnam Campus

Projects

Image Caption Generator 2020

- Implementation of the caption generator using CNN (Convolutional Neural Networks) and LSTM (Long short term memory). The image features will be extracted from Xception which is a CNN model trained on the imagenet dataset and then we feed the features into the LSTM model which will be responsible for generating the image captions.

Predicting stock prices and showing it on a dashboard, 2020

- I took the data of Nifty 50 gathered over past 20 years from Kaggle and trained an LSTM sequential model to predict stock prices. This model was later integrated with the web-app made from Plotly dash libraries of python where the actual closing price of stocks was displayed along with the predicted one.

Music Genre Classification, 2020

- The project uses KNN algorithm to automatically classify different musical genres from audio files. I classified these audio files using their low-level features of frequency and time domain.

Predicting Myers-Briggs Types of a Person using their comments, 2020

- The Myers-Briggs Type Indicator (MBTI) is one of the most widely-used personality tests. I have used the MBTI dataset from Kaggle and predicted the personality based on their online comments using Tensorflow/BERT.

Detecting Fake News, 2019

- I built a machine learning model using tfidfvectorizer and PassiveAggressive Classifier on fake news dataset with an accuracy of 92.82%.

Detecting Parkinson's Disease, 2019

- I built a machine learning model using which we can accurately detect the presence of Parkinson's disease in one's body by using UCI ML Parkinsons dataset with an accuracy of 94.87%.

Effects of SST(Sea Surface Temperature) on Translational Speed of Cyclone, 2019

- In this project I performed data analysis and visualizations using python for finding out the relation between sea surface temperature and translational speed of tropical cyclones. Libraries used: Pandas, Numpy, Seaborn and various essential libraries associated with them.

Understanding Sea Level Anomalies(SLA) and Oceanic processes associated with it in The Indian Ocean, 2019

- In this project, I wrangled, analysed and visualized data about Sea Level Anomalies and generated various time series plots pertaining to it in Python and Ferret. Also, my paper is published on AuthorCafe.com, under the heading "Understanding Sea Level Anomalies(SLA) and Oceanic processes associated with it in Indian Ocean."

Handwritten Digit Recognition

- I implemented a handwritten digit recognition app using the MNIST dataset which is available in Keras using Convolutional Neural Networks. In the end, I built a GUI in which you can draw the digit and recognize it straight away using tkinter.

Colour Detection in an Image

- I built an application through which we can automatically get the name of the color by clicking on them. So for this, I had a data file that contains the color name and its values. Then, the distance from each color was calculated and found the shortest one.

Traffic Signs Recognition in Python

- I used the German Traffic signs recognition benchmark dataset (GTSRB) to build a Deep Neural Network to recognize the class a traffic sign belongs to along with a simple GUI.

Chatbot in Python

- In this Python project, I built a retrieval based chatbot using NLTK, Keras, Python, etc.

LazyQuills.com

- I designed and managed the WordPress website featuring creative writings from different amateur authors across the country. The SEO, marketing and ad sense were handled by me. We had over 1000+ active subscribers for our newsletter.

Extra-Curricular Activities

- Working as a Psych Comrade in Home of Beautiful Souls Foundation (Mental health NGO), Ongoing
- Worked as a Program Manager in Lantern EduSports Foundation, 2020
- Volunteered at 'Social Service Fair' hosted by United Way in Visakhapatnam, October 2018.
- Head and Founder of The Paper Studio (Literary and Arts Club), 2017-18
- Head of Web and Innovation wing of La-Ola (college magazine), 2017-18
- Technical head writer for La-Ola (college magazine), 2015-18
- Member of organizing committee of Tech-Fest Shreshtha, 2016 and 2018. Also designed the website for the Shreshtha, 2018.
- Volunteered for event TEDx IMU Viskhapatnam, 2017
- 240 hours of Social Service as NSS (National Service Scheme, Govt. of India) Volunteer, August 2015 – May 2017.

Academic Achievements

- Secured a percentile score of 95.73 in CAT-2018.
- Secured a score of 338(Q-170, V-168) in GRE, 2018.
- Secured AIR-96 in IMUCET.
- Ranked in among top 0.2% out of 20000 candidates in JEE Adv.
- Secured a score of 284(Out of 360) in JEE Mains.
- Ranked in among top 1.2%(amongst 55000 students) and winner of an All India Merit Certificate in NSO.