

## Mrunal Kulkarni

Navi Mumbai

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### Education

#### Pillai College of Engineering

Bachelor of Technology, Computer Engineering

February 2020

CGPA 9.37

Relevant Courses: Machine Learning, Data warehouse and data mining, Big data analysis. Software engineering, Operating Systems

#### HSC

January 2020

CBSE with total percentage of 88.2%

#### SSC

May 2018

CBSE with total percentage of 94.4%

### Technical Skills

Machine Learning

C/C++

LLMs(BERT, Pegasus)

Python/Scikit-learn

Natural Language Processing

Tensorflow

MySQL

Web development(PHP, CSS, JavaScript)

Data Visualization(Seaborn,Matplotlib)

### Work Experience

#### Trainee Web Developer

December 2022

Bhabha Atomic Research Centre

- Completed a comprehensive training program as a web developer and gained hands-on experience in building web applications using the CodeIgniter framework.
- Assisted in the development and maintenance of a web application that retrieved and managed hundreds of logbooks from a database which contained information about work completed on a daily basis.
- Collaborated with senior developers to optimize database queries and enhance data retrieval functions, achieving accurate and efficient data retrieval based on date, week, and month criteria; reduced query response time by 40%.
- Participated in the creation of dynamic and visually appealing reports using PHP, HTML, CSS, and JavaScript to present logbook data effectively.

### Projects

#### Teams meeting summarization website using Pegasus model of Hugging Face

- Collaborated with a team to create a Teams meeting summarization website, utilizing Python, the Pegasus Language model from Hugging Face, and Natural Language Processing (NLP) tools such as NLTK.
- Conducted data preprocessing, feature engineering, and exploratory data analysis to extract valuable insights and enhance the summarization process.

#### Quora Sentiment analysis using BERT (Bidirectional Encoder Representations from Transformers)

- Independently developed a sentiment analysis project utilizing Python and the BERT model with Tensorflow framework.
- Fine-tuned the BERT model to evaluate the sentiment (genuine or hateful) of questions posted on Quora, contributing to enhanced content moderation and user experience.

#### Online Book review website

- Coordinated with a team to design and develop an online book review website, leveraging technologies such as HTML, CSS, and MySQL.
- Enabled users to submit reviews on books and discover their literary interests through a user-friendly web interface.

#### Book recommendation website

- Worked collaboratively with a dynamic team to create a book recommendation website, employing a range of technologies, including Python, machine learning, HTML, CSS, and JavaScript.
- Focused on understanding user preferences and enhancing their reading experiences by providing personalized book recommendations through content-based filtering.
- Applied machine learning techniques, including the use of unsupervised learning algorithm K-Means clustering, in Jupyter Notebook.

#### Log book report generation website using PHP

- Designed a website which generates timely reports of the log book records by retrieving the data from the database and performing SQL queries on them, using PHP, SQL and Codeigniter framework.

### Courses and Certifications

- Fine tuning BERT for text classification using Python Tensorflow by Coursera
- Machine Learning and Data Analytics certification from Skillsoft
- Deep Learning and Neural Network implementation certification from Skillsoft
- C programming certificate by Spoken Tutorial
- Demystifying Networking course by IIT Bombay NPTEL - Silver certificate
- Python programming Course by Kaggle and Coursera