

# Apurva Bhatt

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[Github](#)

[LinkedIn](#)

## WORK EXPERIENCE

### Jar

August 2023 - Present

- Build text feature extraction models (NLP) and pipeline. Used automatic prompt engineering for data annotation and active ML to reduce the number of annotations.
- Worked on multiple projects: salary detection (clustering), name matching, loan underwriting (linear models, decision trees, basic Reinforcement learning). (present)
- Building a chatbot for guiding a user in the lending journey (GenAI: langchain, openAI, hugging face, prompt engineering, agents) (present)

### Bert Labs

Jan 2023 - July 2023

- Trained Reinforcement Learning models (SAC) to reduce energy consumption in multiple industries. Reduced energy consumption by 15% on average.

### Sharechat

July 2021 - November 2022

- Trained a neural network model from scratch to set preferences/recommendations for new video posts (cold start) and deployed it. Improved AUC by 0.1.
- Performed clustering video posts on the basis of the types of posts like romance, comedy, etc. using audio, video and text features. Achieved ml score of 0.6.
- Trained video classification models (using audio, video and text features), increased the accuracy by 0.08 and deployed it.

### Cisco 6 months Internship

Jan 2021 - July 2021

- Develop a full stack ML tool to optimize dial plans for migration to cloud using ML-driven clustering and usage analysis.

### Google Summer of Code 2018

May 2018 - August 2018

#### CGAL

Guide: [Dr Efi Fogel](#)

- Developed a GUI based demo that facilitates the user to make 2D polygons of various types. It was developed using C++ with extensive use of generic programming.

## RESEARCH EXPERIENCE

### Sharechat

April 2022-Present

- Derived a diffusion model for measuring contingency in social media.
- Submitted in a top AI conference for review.

## PERSONAL PROJECTS

### Generating Poems [Github Link](#)

- Build Poem-GPT after fine-tuning (GPT-2), using semantic and poem rhythm capturing loss function. I have used a combination of OpenAI model and Poem-GPT model to enhance the user experience.
- Build a RAG application using streamlit and langchain for data retrieval from pdf, text files, database and internet.
- Working on LoRA finetuning and a bit of instruction tuning in an attempt to make it more controllable and dynamic.

### Implementation

- Transformers implementation. [Link](#)
- Active ML base strategies implementation. [Link](#)

## KAGGLE COMPETITIONS

### Instant Gratification:

May 2019-June 2019

Came in top 11 percentile [Competition Link](#)

- Trained model for binary classification of the data having multiple numeric columns. Tried multiple classical ML models like QDA to get the best results.

## COURSE PROJECTS

### Rossmann Store Sales:

October 2018-November 2018

Course: Machine Learning [Code Report](#)

Guide: [Prof. G Srinivasaraghavan](#)

- Trained model to predict the sales of the stores using various models like decision trees, random forest, xgboost, linear regression, etc. The highest accuracy was achieved in the college competition.

## CERTIFICATION COURSE

### 1Z0-051 Oracle Database 11g: SQL Fundamental [Link to certificate](#)

May 2016 - July 2016

- Learned SQL fundamentals in depth as well as learned their application in detail.

## Technologies

| Python, Tensorflow, Pytorch, Github, GCP, Airflow, Jenkins, BigQuery (SQL), C++

## EDUCATION

### International Institute of Information Technology, Bangalore

August 2016-July 2021

Degree

Master in Computer Science and Engineering

Bachelor in Computer Science and Engineering

Teaching Assistant

Maths for ML (AI 512)