

Gagandeep Singh

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EDUCATION

Indraprastha Institute of Information Technology, Delhi

Bachelor of Technology in Computer Science and Engineering

New Delhi, Delhi

August 2016 – September 2020

Adarsh Public School

High School

New Delhi, Delhi

April 2015 – May 2016

EXPERIENCE

Software Engineer

Kyvov Insights

August 2020 – Present

Noida, India

- Working as a Java/J2EE developer on Scalable OLAP on hadoop solution, that offers multi-dimensional analysis with very fast query response time
- Designed and developed Business Intelligence features like Sort field and Cohort Analysis.
- Worked on query processing and query filtering optimizations and came up with different data structures to achieve better performance.
- Improved query processing time by an average of 20%.

Undergraduate Researcher

Data Science Lab, IIT Delhi

January 2019 – February 2020

New Delhi, Delhi

- Worked on finding frequent patterns in spacial domain.
- Parallelize implementation of pattern mining using Apache Spark.

Software Engineering Intern

Camp K-12

May 2018 – July 2018

Gurgaon, India

- Worked in building an online video portal for interactive learning.
- Developing and maintaining front end using React.js.
- Teaching students basics of programming in JAVA and Android and worked remotely on android development.

PROJECTS

Parking System | *Jax-RS, JavaEE, PostgreSQL, TestNG*

September 2020 – October 2020

- Developed a full-stack web application using with Jersey serving a REST API to multiple tenants.
- Implemented schema based multitenancy for the database design for a parking system.
- Used TestNG for unit testing of the entire application.

Delhi Riots Tweet Analysis | *Python, Scikit-Learn, Matplotlib, Git*

March 2020 – April 2020

- Used **Tweepy API** to collect tweets from Twitter which talked about Delhi Riots.
- Used TFIDF model to predict the topic discussed in the tweet.
- Used Naive-Bayes Classifier to predict if a tweet is a rumour or not, 86% precision was achieved.
- 56% of tweets were found to be fake, thus spreading false information.

Departmental Store | *Ruby on Rails, Bootstrap, CSS, HTML, Git*

Aug 2018 – Nov 2018

- Created an e-commerce website selling daily item using **Ruby on Rails**.
- The website is a multi tenant SAAS application to cater multiple shop owners.
- Added user based features like allowing user to download PDF copy of the receipt.
- Developed frontend of the entire app using Bootstrap and CSS

Spam Ham E-mail Classifier | *Python, Scikit-Learn, Flask, Git*

May 2019 – July 2019

- Predicting whether an e-mail is ham or spam using **scikit-learn** library in python.
- Preprocessing of text was done using **nlTK** library.
- Predictions were done using the naive-bayes classifier , 97% precision was achieved.
- The webapp was built in **flask** is deployed on heroku.

Chain Reaction | *Java, Java-FX, Git*

Sept 2017 – Nov 2017

- Created desktop replication of the game Chain Reaction.
- Developed an intelligent bot to play the game against you, which could predict your moves and act accordingly.
- The app was built with JAVA and JavaFx framework implementing OOP concepts.

TECHNICAL SKILLS

Languages: Java, Python, SQL (Postgres), JavaScript, HTML/CSS, Ruby

Frameworks: React.JS, JUnit, TestNG, Jax-RS, Java-FX, Ajax, JQuery, Apache Spark

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: Pandas, NumPy, Matplotlib, Scikit-learn

ACHIEVEMENTS

Academic

- **Ranked 341** in Google Kickstart 2020 Round E
- **Ranked 37** in online hackathon based on Data Science and Machine Learning organised by ZS Associates
- **JEE Mains:** Ranked among top **1%** of 1.2 million students
- **IMO:** Ranked **4th** in state at IMO 2012

Miscellaneous

- Represented Delhi state team in Football Nationals
- Represented IIT Delhi university at sports fest for Football and Power-lifting. Placed second at Spardha 2019(IIT BHU sports fest)
- Represented high school at Football and Roller Skating state competitions

CODING PROFILES

Codeforces: gagan_6730

Codechef: gagan6730

Leetcode: gagan_6730

Github: Gagan6730