Parth Rathod

Gujarat, India

+91-7016918826
parth.rathod12@gmail.com
github.com/Parth0921
linkedin.com/in/p-rathod

EDUCATION

•**Charotar University of Science and Technology** — *Aug 2020 - May 2024*
Bachelor of Technology in Computer Science and Engineering ; GPA: 9.69 — Gujarat, India

•**State Board** — *Apr 2018- Mar 2020*
Class X; Percentage: 88% — Gujarat, India
Class XII; Percentage: 76%

EXPERIENCE

•**Hydro Pneumatic Equipment - UNIT 1** — *May 2023 - Feb 2024*
Software Engineer Intern — Gujarat

- Developed a portfolio website using **React, Bootstrap, and Express**.
  Integrated Email marketing using **SendGrid** and Blog functionality using **Quill,
  Firebase Storage and Firstore Database** to increase the digital presence of the company
- Introduced **Redis** as an in-memory cache to reduce data querying time by **50%** and
  Gzip compression on hosting and backend server which reduced the payload size by **50%**
- Automated a **CI/CD pipeline** using **Github Actions**
- Reduced page speed index by **2s** using **React Lazy Loading and Observer API**
- Optimized Performance metric from **44 to 74** for mobile and **78 to 96** for Desktop
  keeping Accessibility, Best Practices and SEO above **90**
- Achieved **1%** increase in lead generation using **Python-Scrapy**

PROJECTS

•**Softare Salary Prediction** — *Aug 2022 - Mar 2023*
Dataset: StackOverflow — Github
- Built a regression model using **Linear Regression, DecisionTree,
  and RandomForest** to predict salary
- **Mean-sqaured Error** was used for performance measure of models
- Optimization of the selected algorithm was done using **GridSearchCV**

•**Twitter Sentiment Analysis** — *Nov 2022 - Dec 2022*
Dataset using Twitter API — Github
- Fetched **live tweets** using Twitter API and performed **pre-processing** of tweets
- Sentiment Analysis after pre-processing using **NLTK and TextBlob** library.
- Visual representation using **Wordcloud, Bar Graph, and chart** for easy interpretation

•**Helping Hands** — *Jan 2022 - Apr 2022*
An application for waste food management using Flutter — Github
- **Firebase-Auth** for authentication of User, NGO, and Restaurants.
- CRUD operations on order and user using **Firestore Database**
- Implemented **Stream Builder** to listen to changes in data and update the UI accordingly
- Notifications using **Firebase-Cloud-Messaging** on order placed

SKILLS

- **Relevant Coursework**: Data Structures and Algorithms, Operating System, Database Management System, Computer Networks, Probability, Statistics, Mathematics, Computer Architecture

- **Programming Languages**: Python, C++, C, Dart, JavaScript

- **Libraries/Frameworks**: Git, React, Nextjs, tailwind, Bootstrap, Express, Quill, Numpy, Pandas, Matplotlib, scikit-learn, wordcloud, NLTK, scrapy, Power BI

- **Operating Systems**: Windows, Linux

PUBLICATIONS

•**Meta-Analysis of Popular Hashing and Encryption Algorithms** — *Aug 2023*
ICT4SD - Springer — Publication
- 1000 papers were reviewed of which **165** were selected
- Presented the paper in offline conference on 3rd August at Vivanta By Taj, Goa
- Analysed Encryption Algorithms such as **Blowfish, AES, DES, and 3DES** and
  Hashing Algorithms such as **SHA-1,2,3** for performance analysis.