

Jatin Dholakia

Portfolio: jatin.work

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EDUCATION

- **Indian Institute of Technology, Gandhinagar** GPA: 8.24
B.Tech - Electrical Engineering with Minor in Computer Science 2016 - 2020
- **Shiv Jyoti Convent School** 91.8 %
12th CBSE | PCM 2015 - 2016
- **Nand Vidya Niketan** CGPA: 10.0
10th CBSE 2013-2014

SKILLS

- **Languages:** Java, SQL, Python, C++
- **Frameworks:** Spring, Flask, PyTorch, Tensorflow
- **Tools:** GIT, MySQL, PostgreSQL
- **Miscellaneous:** AWS, Google Cloud Platform, Agile framework, Microservices

EXPERIENCE

- **S&P Global**
Software Development Engineer August 2020 - Present
 - Worked on an internal tool which is used to entitle packages to users. It is built using **Spring framework** and uses **MVC architecture**.
 - Added new feed of data into the tool which increased the packages offered.
 - Worked on API drive link which runs a scheduler on input files, calls API and places output file in client's outbox folder.
- **Quantiphi Analytics**
Platform Engineering Intern May 2019 - July 2019
 - Built a data-pipeline for a retail company to forecast its sales based on past data, using Google Cloud Platform.
 - Orchestrated various pre-processing and post-processing tasks into the pipeline using Cloud Composer which runs on a Kubernetes cluster.
 - Built a backend web-application using **Flask**, which served the API calls made by the user.
 - Created an endpoint which would perform **user authentication** using the credentials provided.
 - Used AutoML Tables to generate predictions on back test splits and evaluate metrics.

PROJECTS

- **SentEmoji - Empathetic Conversation Generation:** [Github](#)
 - Published in 25th COMAD (CODS-COMAD 2020) - International Conference on Data Science and Management of Data.
 - Developed a chatbot that generated empathetic **responses with emojis** to the given context
 - Used architectures like Transformer encoder and BERT. Used word2vec and emoji2vec to assign emojis to sentences and CNN model to identify the emotion of generated sentence.
- **Real Word Spelling Correction:** [Demo](#) [Github](#) [Article](#)
 - Correction of sentence based on context, even if an out-of-dictionary word is not present. Bigram language model is used to compute probabilities of all candidate sentences using a metric like edit distance.
 - Used **AWS Lambda** and **API Gateway** to deploy as an API. Created a form for taking input and making requests.
- **Reinforcement Learning for Games:** [Github](#)
 - Explored the performance of algorithms like Q-Learning, Deep Q-Learning and CNN based Deep Q-Learning on games with varying number of states.
 - Understood the tradeoff between exploration and exploitation in large MDPs. Trained agent using epsilon-greedy policy.
 - Achieved an average score of 1200 on the classic game Pacman, which was close to the human-level performance of 1500.

ACHIEVEMENTS

- Awarded **Dean's list** for excellent academic performance in Semester 6 & 7
- Qualified for second round of Jumpstart (Hackathon), from over **1400 participants**.
- Rated **Specialist** on Codeforces - a Competitive Programming Website
- Secured a rank of **2548** (ranked in top 0.2% of candidates) in **JEE Advanced (IIT-JEE)**
- Awarded **Certificate of Merit** (by CBSE) for obtaining 'A1' grade in all the 5 subjects in 10th standard.