

EDUCATION

Jalandhar, Punjab	Lovely Professional University	Aug 2016 – Aug 2020
<ul style="list-style-type: none">• Major: Computer Science & Engineering, B.Tech• Coursework: Computer Programming, Object Oriented Programming, Data Structure & Algorithms, Database, Software Engineering, Artificial Intelligence, Machine Learning and Data Science.• Certificate: Data Scientist Nanodegree, Udacity (Project Completion Challenge Winner)• Activities: Founded and managed Microsoft Technical Community LPU, and hosted various coding events and hackathons with total participation of 2000+ students from different colleges of India.		

EXPERIENCE

Software Engineer, Intern	InterviewBit	Sept 2019 – May 2020
<i>Auto-suggestion Tool (NLP)</i> <ul style="list-style-type: none">• Implemented an end-to-end auto-suggestion tool to find the semantic similarity between the solution of student's queries and deployed the model as a REST-API on AWS EC2 using Flask wrapper.• Reduced the query resolution time of 72% of students from 2 days to 13.3 minutes (average).• Developed a dashboard to analyse the Key Performance Indicator (KPI) using SQL queries. <i>Code Plagiarism Detector (NLP)</i> <ul style="list-style-type: none">• Built an NLP tool to calculate the percentage of code and text in a sentence to avoid the plagiarism in TA's responses to increase the overall interaction of students and TAs.• Blocked 81% responses which contained code without any explanation and third party links.• Automated migration of 1500+ students from Flock to open-source platform Mattermost using Python scripts.• <u>Leveraged knowledge</u> in Full Stack Development, Natural Language Processing, AWS, Sentry, and Jira.		
Data Science, Intern	upGrad	Jun 2019 – Aug 2019
<ul style="list-style-type: none">• Evaluated 200+ projects using internal code review tool for data science and machine learning courses.• Supervised students to improve their skills by providing clear, positive and line-by-line actionable feedback on their projects.		
Data Analyst, Intern	MyGov India	Jun 2018 – Jul 2018
<ul style="list-style-type: none">• Analyzed sentiments of public on different government policies and campaigns on social media.• Exported over 4000 tweets via Twitter API and built a hybrid solution to classify each tweet as positive or negative.		

PROJECTS

- Personal Website:** www.rohitswami.com (for additional information and projects)
- **Indian Paper Currency Prediction** (May 2020) – Trained a Convolutional Neural Network (CNN) model on custom images to predict the 7 types of Indian paper currency i.e. 10, 20, 50, 100, 200, 500, 2000 and deployed the web app on Heroku with the security of CSRF Protection. Utilized: Python, jQuery, Keras, Flask, Gunicorn, Amazon S3, Heroku and Sentry. [Demo] [Code]
 - **Disaster Response Pipeline** (Mar 2019) – Built API endpoints and deployed a NLP pipeline on Heroku using TF-IDF Transformer to categorize the events of a disaster response data with AdaBoostClassifier with accuracy of 94.71%. Utilized: Python, Flask, JavaScript, Scikit-learn, NumPy and Pandas. [Code]
 - **IPL Live Updates** (Apr 2019) – Used an HTTP persistent-connection to scrap the live score from a web-page and delivered on desktop using push notification service. Utilized: Python, Beautiful-soup, and Plyer. [Code]

SKILLS

- **Languages:** Python, Ruby, SQL, HTML, CSS, JavaScript
- **Frameworks & Tools:** NumPy, Pandas, EC2, PyTorch, Angular 6, S3, Keras, Flask, Scikit-learn, Matplotlib, ETL Pipeline, Data Wrangling, Lambda Functions, MySQL, Ruby on Rails, D3.js, Leaflet.js, Tableau, Git

ACHIEVEMENTS

- Featured by Towards Data Science publications in technical writing on Medium. **(2020)**
- Ranked 9th (Global) out of 945 participants in a Machine Learning Challenge hosted on Hackerearth. **(2019)**
- Among Top-10 out of 45+ teams in HaXplore Hackathon organized by IIT-BHU. **(2019)**
- 1st position out of 35 teams in a hackathon hosted by Infosys, Chandigarh. **(2017)**