

EXPERIENCE

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| Software Engineer | Ignite Solutions | Feb 2021 – Present |
| <ul style="list-style-type: none">Created and deployed demand forecasting machine learning models for retail energy provider to eliminate uncertainty with confidence and operate at their full potential.Conducted research on big data provided by MasterCard and came up with the probability to sell a product in a particular geo-area in United States. Built a back-end in Flask to support the analysis.Single-handedly built back-end for internal recruitment portal using Google APIs and Flask framework.Developed RESTful APIs for a product definition app and performing routine data analysis for international clients. | | |
| Software Engineer, Intern | InterviewBit | Sept 2019 – May 2020 |
| <i>Query 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 backend.Reduced the query resolution time of 72% of students from 2 days to 13.3 minutes (average). <i>Code Detector (NLP)</i> <ul style="list-style-type: none">Built an NLP tool to calculate the percentage of code and text in TA's responses to increase the overall interaction.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.Leveraged <u>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 tools 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 the 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, Unicorn, Amazon S3, Heroku and Sentry. [Demo] [Code]

EDUCATION

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| Jalandhar, Punjab | Lovely Professional University | Aug 2016 – Aug 2020 |
| <ul style="list-style-type: none">Major: Computer Science & Engineering, B.TechCoursework: 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) | | |

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

- Holding Expert tier in Dataset (**Top 0.05%**) & Notebook (**Top 0.07%**) category on [Kaggle](#). (2020)
- Published **3 research papers** in NLP, Mix-NLP, Computer Vision and Audio Processing domain. (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)