

Ronnie Gandhi

CONTACT

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PROFESSIONAL SUMMARY

Computer Science undergraduate in my final year and one of the very few students to intern at **Microsoft** in the 2nd year itself with the job title of "Data and Applied Scientist". I have interned at Microsoft in my 3rd year as well. Having a deep interest in Machine Learning(NLP), Data Science. I also shared my interest in Quant Finance and I have done Google Summer of Code(**GSoC**) twice and consider myself good for all sorts of development jobs. I like learning new things. I have received **Pre Placement Offer** from Microsoft, Hyderabad for Data Scientist position.

EDUCATION

Computer Science and Engineering

2017 — 2021

Indian Institute of Technology Roorkee
CGPA - 7.414/10

WORK EXPERIENCE

Microsoft

18 January 2021 — Present

Data and Applied Scientist Internship

I joined as an intern in "Project Q - PAA for News" team of STCI Bing and aim at improving the end performance and coverage of RQnA.

Google Season of Docs (GSoD)

1 Sept 2020 — 10 Dec 2020

Technical Writer @ LibreOffice

Project Title: Calc Functions Reference and User Guide (Krezhairo)

Mentor: Olivier Hallot, Steve Fanning

Link: <https://developers.google.com/season-of-docs/docs/2020/participants/project-libreoffice-krezhairo>

Google Summer of Code (GSoC 2020)

1 June 2020 — 31 August 2020

Student Developer @ CGAL

Project Title : Enhancing the 2D Regularized Boolean Set Operations Demo (Krezhairo)

Link : <https://summerofcode.withgoogle.com/projects/4513740550045696>

Microsoft

11 May 2020 — 14 July 2020

Data and Applied Scientist Internship (BING team)

(Made remote due to COVID-19)

Project titles: "News Query Timeline Related Suggestions" and "Query Topic Allocation"

Under : Dr. Manoj Agarwal

News Query Timeline Related Suggestions: As a deliverable this was a pure IR pipeline with end products of Related Suggestion for fresh queries and a timeline having top news URLs for the event that the user query gets assigned to.

Query Topic Allocation: This project aimed at building a sentence classification model capable of classifying the static user query and assign it a topic. It is capable of assigning query 1 or more topics out of 2420 general topics that exist as a point of discussion.

Google Summer of Code (GSoC 2019) 27 May 2019 — 20 August 2019

Student Developer @ CGAL

Project Title : Enhancing the 2D Regularized Boolean Set Operations Demo (Krezhairo)

Link:<https://summerofcode.withgoogle.com/archive/2019/projects/4989489175330816/>

Microsoft

13 May 2019 — 5 July 2019

Data and Applied Scientist Internship

Project Title: News Query Timeline

Under : Dr. Manoj Agarwal

I created an automated timeline experience from spikey user query extracted from the Bing user query log for each interesting events lasting over multiple days.

WorldQuant

Jan 2019 — May 2019

Research Consultant

- Using Quantitative approach and developing Trading Algorithms (alphas) to deploy systematic investment strategies focused on market inefficiencies across US, Asia, and Europe equities.
- Using advanced mathematical and statistical techniques to model and predict market movements and develop quantitative strategies for efficiently trading equities.

PATENT

PROVIDING RECENT EVENT INFORMATION TO USER

Filed on Feb 25, 2021

Patent Application Number: MS# 409201-LU-NP

Other Inventor: Manoj Agarwal, Principal Applied Scientist at Microsoft

End-to-end News Timeline Generation over user search data from Bing. The news timeline consists of top URLs that holistically capture the event. The timeline can run over multiple days, where it can grow, (maybe) merge with another upcoming related event and finally die out.

Another by product of this was fresh news related suggestions for Related Suggestion section in the Bing Search.

SKILLS

Programming Languages & Tools

- Python, Pytorch, Tensorflow (ML/DL)
 - ReStructuredText, Markdown, Sphinx, XML
 - C# and Scope (for BING's internal COSMOS database)
 - C++, Qt5 (For building desktop based apps)
 - React (frontend)
 - Django(for deploying DL models), Node JS(backend)
 - MySQL and MongoDB (DB)
 - Docker, Kubernetes, Cloud Native
 - Selenium and Scrapy (web scrapping/crawling tools)
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Industry Knowledge

- Machine Learning (with a special interest in Text based Deep Learning)
- Back-End Infrastructure/Microservices
- Probability and Statistics
- Image Processing(Intermediate)
- Mobile App Development (Intermediate)

ADDITIONAL ACTIVITIES

OLIVIA - Obedient Light Intelligent Voice Interactive Assistant Sept 2020 - Present

IIT Roorkee B.Tech Project

- The project involves building a full fledged in house Voice assistant capable of performing multiple features. The basic workflow can be viewed here: <https://github.com/RonnieGandhi/OLIVIA>
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Sequential Metaphor Detection using Deep Learning 2020 - May 2020

Jan

IIT Roorkee Academic Project

- The project aimed at building end-to-end metaphoric word identification model using Multi-headed Context Attention and feeding the pretrained GLoVE embeddings used with POSTag data of each word in a sequence using another embedding, ELMo in our case
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Sentiment Analysis of Product Reviews 2019 - Oct 2019

Sept

IIT Roorkee Academic Project

- Use Amazon Product review dataset to build and train BERT classification model for sentiment analysis task.
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