

Ritesh Soun

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EXPERIENCE

NOW&ME | MACHINE LEARNING ENGINEER

April 2022 – Present | Gurugram, Haryana, India

- Training ML models for platform moderation.
- Designing **ML algorithms for personalized user feed**
- Setting up **MLOps pipelines**

MINDSHIFT | DATA SCIENCE INTERN

Dec 2021 – March 2022 | Bangalore, India

- Monitoring and Analyzing **1000s of data points** from sensors on a daily basis
- Designing **ML algorithms to detect anomalies** in fuel and energy consumption
- Suggesting **optimizations for higher consumption efficiencies**

MIDAS: MULTIMODAL DIGITAL MEDIA ANALYSIS LAB | AI RESEARCHER

Sep 2021 – Present | New Delhi, India

- Assisting NLP research projects
- Co-authored **5 research studies (2 accepted at ACL 2022, 1 accepted at NAACL 2022)**
- Collaborating with researchers from abroad and India to conduct research

BRICKWIN CONSULTANCY SERVICES | FREELANCE ML DEVELOPER

Jan 2021 – Dec 2021 | Noida, UP, India

- **Deriving insights** from social media data (LinkedIn, Twitter, etc.)
- **Training NLP models** and making them production ready
- **Collecting, cleaning and preprocessing data** from unstructured/structured sources

TAVLAB, IIIT, DELHI | NLP RESEARCH INTERN

Jun 2021 – Dec 2021 | New Delhi, India

- Processing ICU data across modalities to derive insights from clinical notes
- Co-authored **1 journal paper**, currently under review
- Collaborating with researchers from **AIIMS, Cleveland Clinic** to name a few

1GEN | PROJECT INTERN

Jun 2019 – Jul 2019 | New Delhi, India

- Worked for a UN Project namely "Summer of Solutions"
- **Programmed an IoT device** to provide localised weather forecast to poor farmers around the world

PUBLICATIONS

HYPERBOLIC HAWKES ATTENTION FOR TEXT STREAMS | PUBLISHED

60TH ANNUAL MEETING OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS

ACL 2022 | Dublin, Ireland

We propose a Hyperbolic Hawkes Attention Network (HYPHEN), which learns a data-driven hyperbolic space and models irregular powerlaw excitations using a hyperbolic Hawkes process.

SKILLS

PROGRAMMING

Proficient:

Python • C/C++

Experienced:

MATLAB • L^AT_EX • Kotlin • SQL

Familiar:

Java • Shell • Assembly • JS • DART

LIBRARIES/Frameworks

PyTorch • Selenium • SkLearn • Django • TensorFlow • BeautifulSoup • Pandas • Numpy • Matplotlib • Seaborn • NLTK • Gensim

TOOLS/PLATFORMS

Git/Github • AWS • Heroku

DOMAIN KNOWLEDGE

Machine Learning • Deep Learning • Data Science

EDUCATION

UNIVERSITY OF DELHI

B.Sc. (HONS) IN ELECTRONIC SCIENCE WITH MINOR IN

MATHEMATICS

July 2019 - Present | Sri Venkateswara

College, DU

Department of Electronics

GPA: 9.47 / 10.0 (till sem 4)

DMIX: ADAPTIVE DISTANCE-AWARE INTERPOLATIVE MIXUP | PUBLISHED

60TH ANNUAL MEETING OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS

ACL 2022 | Dublin, Ireland

We extend Mixup and propose DMix, an adaptive distance-aware interpolative Mixup that selects samples based on their diversity in the embedding space.

CIAUG: EQUIPPING INTERPOLATIVE AUGMENTATION WITH CURRICULUM LEARNING |

ACCEPTED AND TO BE PUBLISHED (JULY, 2022)

2022 ANNUAL CONFERENCE OF THE NORTH AMERICAN CHAPTER OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS

NAACL 2022 | Seattle, Washington, USA

We propose CIAug, a novel curriculum-based learning method that builds upon mixup. It leverages the relative position of samples in hyperbolic embedding space as a complexity measure to gradually mix up increasingly difficult and diverse samples along training

PROJECTS

DASHBOARD FOR LEAD GENERATION | FREELANCE PROJECT

PYTHON, NLP, WEB SCRAPING/CRAWLING, DJANGO

2021

- A lead generation/analytics tool used to **identify leads based on social media activity**
- Used by **10+ companies and senior executives** from **15+ countries**
- Processes data of **1000s** of people daily
- Generates to the point **summaries and visualisations**
- Find out more about it [here](#)

ARTICLE ANALYZER | PERSONAL PROJECT

PYTHON, NLP, WEB SCRAPING, DJANGO

2021

- **Multi-lingual** tool to **analyse and summarize articles**
- Extracts **keywords, summary, word cloud, language**, etc.
- **9 languages** supported
- Find out more about it [here](#)