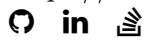


Kartikey Singh

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EDUCATION

- **Indian Institute of Technology (BHU)**
Bachelor of Engineering in Electronics: (9.17/10.0)

Varanasi, IND
July 2016 - July 2020

EXPERIENCE

- **Melopond Online Radio**

Software Development Intern

Varanasi, IND
Sep. 2019 - Jan. 2020

- Engineered backend and songs feature extraction methods for the AI-based online radio station startup.
- Used AWS S3, Flask, MySQL, Collaborative filtering.

- **Samsung Research Institute Bangalore**

Summer Intern

Bangalore, IND
May 2019 - July 2019

- **Device Services Team:** Developed a robust log files error classification and analysis system and received pre-placement offer from them.
- Used Python, MySQL, Pandas, Multiprocessing, Regex.

PUBLICATIONS

- **Personalized Diversification in Recommendation Systems: A Cluster Based Approach**

Naina Yadav, Kartikey Singh, Anil Kumar Singh

- Worked with Associate Professor Anil Kumar Singh to develop a novel method to increase diversity in recommendations.
- Currently submission under review in **Applied Soft Computing journal**.

PROJECTS

- **Third Position in HCL Lucknow AI Hackathon |LINK**

Nov. 2019

- Built a complete product under 24 hours working in a team of four to build a biased free source of news and used automatic topic assignment and ranking for it.
- Used Twitter APIs, Topic modelling(LDA), Flask, ReactJS.

- **Replicating-SeER |LINK**

- Replication of SeER: An Explainable Deep Learning MIDI-based Hybrid Song Recommender System in TensorFlow2.
- Provided first publicly available copy of their dataset and code.

- **Vote for Change |LINK**

- Created a polling website where users can poll on their topic of interest after signing up and shows statistics and graphs of the resulting poll to users.
- Part of the code.fun.do hackathon and used Django, jQuery for it.

- **Orthographic Languages Similarity Measurements |LINK**

- Extracted similar words between Orthographic languages along with their distance by using provided corpora with the help of Longest Common Substring (LCS), n-gram and DICE algorithms.
- Part of CSE-443 (Natural Language Processing) coursework, received grade A for it.

- **Member of Technex-18 Technical Team**

- Developed a scalable/modular web application for the tech fest of IIT(BHU) (used by more than 15k participants), solved various tech-related issues throughout the year.

PROGRAMMING SKILLS

• **Languages:** Python, C++, Javascript, SQL

Technologies: Pandas, TensorFlow, Django, Git, AWS

ONLINE COURSES

- Applied Data Science with Python specialization • Machine Learning • Algorithmic Toolbox
- Data Structures • Front-end Development