Kartikey Singh

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Education

- **Indian Institute of Technology (BHU)** — Varanasi, IND
  Bachelor of Engineering in Electronics: (9.17/10.0) — *July 2016 - July 2020*

Experience

- **Melopond Online Radio** — Varanasi, IND
  Software Development Intern — *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** — Bangalore, IND
  Summer Intern — *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.
  - Achieved low variation with respect to original paper statistics.
- **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