

SHIKHAR JAISWAL

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Noida, India

<https://shikherjaiswal.github.io>

EDUCATION

Bachelor degree

Indian Institute of Technology, Ropar

July 2015 – July 2019

Punjab, India

- Branch: Computer Science & Engineering (CSE) | GPA - 7.27/10
- Related coursework:**
Data Structures & Algorithms, Computer Architecture, Operating Systems, Introduction to Database Systems, Computer Networks, Computer Graphics, Computer Vision (CV), Machine Learning (ML), Data Mining, Software Engineering

Higher Secondary - St. Basil School | 90.8 %

Indian School Certificate (ISC)

2014

Basti, India

Secondary - St. Basil School | 84.29%

Indian Certificate of Secondary Education (ICSE)

2012

Basti, India

- Secured 99 % in Computer Science

WORK-EXPERIENCE

Engineer | Natural Language Processing

Samsung R&D Institute Delhi

July, 2019 – Present

Noida, India

- Built an End-to-End Deep Learning system that provides Recommendation along with an explanation, a.k.a **Explainable Recommendation System**
This service improved the user's engagement significantly. Used **Knowledge Graph** (KG) to enrich the Personalised Recommendation by adding links between user & the data to be recommended.
- Implemented a service for **Spell Correction** to identify & correct the Misspelt words that belonged to Samsung domain.
- Worked on **Continuous/Active-learning** approaches to improve the Chatbot performance.
In this system Model itself identifies the weak performing Intent/Classes & ask the developer for the relevant data-points to improve itself.
- Worked on improving the search results for a query.
Used **Sentence BERT** to up-weight the Semantic close documents from corpus, that gave performance boost of 9%.

Software Engineer Intern

MAQ Software

May, 2018 – June 2018

Hyderabad, India

- Designed an ETL, SQL Server Integration Services (SSIS) package to take periodic snapshot of data from **Data mart**.
- Created transaction efficient stored procedure and scheduled the job through SQL Server Agent.

SKILLS

Programming: C, C++, Java, Python, Matlab, HTML5, SQL

Tools & Library: Django, Android Studio, pyTorch, nltk, Jupyter

PROJECTS

I spoke that?? | B.Tech- Project

Prof. Deepti R. Bathula

- Given an image of the target person and the text/audio as input, Generated the video frames of the target person imitating the text/audio with facial expressions and lip movements.
- GRID dataset was used to train the Encoder, Decoder network on 33 unique speakers.
- Each speaker uttering 1000 phonetically varied unique sentence, Gated Recurrent Unit (GRU) used to capture the temporal information of spoken text/audio.

Find'nTravel | Prof. Tarique Anwar

- Understand, mine and analyze the pattern of the users using the BrightKite app
- Recommending user places along with a list of potential friend with whom user can accompany based on his interest & travel check-in patterns.

Parking Lot | Prof. Abhinav Dhall

- Real-time model was built using CV/ML technique(Canny edge, Support Vector Machine (SVM), Hue-saturation color space) to detect parking spaces in parking lot.

Pakki Seat | Prof. Balwinder Sodhi

- Web app provides the user with the best alternative option (either by providing an alternative route to reach the destination or by breaking the journey) to book confirm ticket on IRCTC & do other Railway inquiries

SMS Spam Detector | Prof. C.K Narayanan

- ML models were trained after the feature extraction on Spam data set from UCI repo. Out of various algorithms like SVM, Naive Bayes, K-Nearest Neighbors, Random forest, latter performed the best with accuracy 97.94%

EXTRA-CURRICULAR



Was part of Inter-year Basketball team organized by Board of sports activities, IIT Ropar.



Represented IIT Ropar in Astronomy competition in Inter-IIT Tech Meet'18



Co-ordinated multiple events for Astronomy Club at IIT Ropar