

# SHIKHAR JAISWAL

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## WORK-EXPERIENCE

### ShareChat | Senior Software Engineer | Search Team

August, 2021 – Ongoing Bengaluru, India

**Skills:** Node.js, GoLang, Redis, Python3, SQL, GCP, Airflow, Jenkins, ElasticSearch, Kubernetes

- Designed and built the End-to-End **Data Ingestion Workflows** using message queue at different trigger points across the product which is easily maintainable and fault tolerant.
- Enhanced the relevance of search results across various stages of the search funnel (Zero-State, Auto-Complete, Profile, Tag, and Post Search Feed).  
Achieved this improvement by adjusting the Candidate Generation & ranking layer for both Sharechat and Moj verticals, catering to **approximately 10 million Daily Active Users**.
- Configured multiple CI/CD pipelines with Auto-scalable deployments, Grafana monitoring and alerting.
- Added the Unit Test Cases (UTC) and Integration Tests (Behavior-driven scenarios) from scratch in the search service that **reduced bugs in the feature releases**.
- Leading a 3-member Search team for the past year, driving cost-saving initiatives and spearheading revenue-generating projects to optimize pod profitability, **Saving nearly 3 million/month**.

### Samsung R&D Institute Delhi | Intelligence S/W Team

July, 2019 – August, 2021 NCR, India

**Skills:** Python3, SQL, AWS, Airflow, ElasticSearch, pyTorch

- 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%.

### MAQ Software | Backend Intern

May, 2018 – July, 2018 Hyderabad, India

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

## TECH SKILLS

**Programming:** Java, OOPS, Python3, HTML5, Matlab, SQL, Node.js  
**Tools & Library:** Flask, Android Studio, Kubernetes, pyTorch, nltk, Jupyter, AWS, Airflow, ElasticSearch, GCP, Jenkins, Redis

## EDUCATION

### Bachelor degree

#### Indian Institute of Technology (IIT), Ropar

July'15 – June, 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

### Higher Secondary-ISC | St. Basil School

| Score: 90.8%

## PROJECTS

### Find'nTravel | Prof. Tarique Anwar

- Analyzed the pattern of the users using the BrightKite app
- Recommended the user, a list of places he can visit and list of friends which can help him in deciding the itinerary

### 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

### Web-App For Guest House and Mess-Food

#### Booking | Prof. Neeraj Goel, Mukesh Saini

- Aids the user to book meal in Mess / Guest-house. Objective was to avoid food wastage by facilitating the mess owner know beforehand how many people are going to dine-in.

## EXTRA-CURRICULAR



Participated in Inter-year Basketball team organized by Board of sports activities, IIT Ropar.



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