# Harshit **Singhai**

SOFTWARE ENGINEER

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## Education

**Bennett University**                                                                                                    *Delhi NCR, India*
BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING (CSE) - 7.98 GPA                   *Aug. 2016 - Aug. 2020*

- Main coursework: Data Structures and Algorithm, Artificial intelligence, Machine Learning, Database, Cloud Computing, Big Data.

## Work Experience

**Deloitte USI**                                                                                                         *Gurugram, India*
DATA ENGINEERING @DELOITTE USI - STRATEGY AND ANALYTICS - ARTIFICIAL INTELLIGENCE AND DATA ENGINEERING    *Feb. 2022 - Ongoing*

- Working with Data Engineering team at Vanguard (USA)
- Streamlined batch processing ETL processes across billions of rows of data which reduced manual workload by a monthly 65%
- Maintained data pipeline up-time of 99.8% while ingesting streaming and transactional data across 7 primary data sources using Spark, Python, Glue, Athena, and S3
- Data optimization initiatives resulting in a 62% reduction in job run time, enabling the business to extract insights from the data more quickly.
- Worked closely with the analyst team and various stakeholders to translate business needs into technical solutions.

**Cliff.ai by Quantive**                                                                                                   *Indore, India*
SOFTWARE ENGINEER                                                                                           *Aug. 2021 - January 2022*

- Reduced memory usage and improved speed of two micro-services by 40% and 60%, respectively, resulting in a more efficient system.
- Implemented a scalable, fault-tolerant architecture utilizing Kafka, Elasticsearch, Clickhouse, MongoDB, MySql, producer-consumer architecture, and parallel processing, resulting in better performance and reliability.

**Deepsource**                                                                                                          *Bengaluru, India*
MACHINE LEARNING ENGINEER INTERN (6 MONTHS) - PLATFORM                                          *December 2020 - June 2021*

- Designed and implemented pipeline for automatic training, re-training, and deployment of 50k+ ML models.
- Utilized XGBoost for training and developed recommendation system for ranking relevant issues for each repository.
- Managed ML infrastructure and data engineering tasks.

**MLH Fellowship - BentoML**                                                                                              *Remote, India*
OPEN SOURCE CONTRIBUTOR                                                                                       *Oct 2020 - Dec 2020*

- Contributed to BentoML (https://github.com/bentoml/BentoML)

**Finshots/Ditto Insurance**                                                                                            *Bengaluru, India*
SOFTWARE ENGINEER INTERN (6 MONTHS)                                                                        *Jan. 2020 - June. 2020*

- Developed the user-interface for both web app and mobile app (Android and iOS) using React, React Native, Redux and Typescript, resulting in a responsive and user-friendly interface that enhanced the user experience

## Programming Skills

| | |
|---:|:---|
| **Server Side** | Python, Go, Node.js, FastAPI, Django, Celery, REST API |
| **Database** | SQL/NoSQL, PostgreSQL, MySQL, MongoDB, AWS DynamoDB, Redis |
| **Machine Learning** | Scikit-Learn, Pandas, Data Analytics, Deep Learning, TensorFlow, Keras, Kubeflow, MLOps |
| **Data Engineering** | Apache Airflow, Spark, PySpark, AWS Glue, S3 data lake, Glue Data Catalog, EMR, Athena, Hive, Presto, SQL, Tableau |
| **Other** | AWS, Docker, Kubernetes, Git, Problem Solving, Data Structures Algorithms |

## Projects

**Projects Showcase**                                                                                                      *Side Project*
LIST OF ALL THE SIDE PROJECTS I'VE SHIPPED.                                                                  *Jun. 2021 - Ongoing*

- https://fictionally-irrelevant.vercel.app/posts/side-projects-2022

## Accomplishments & Awards

| 2023 | **Cohort Lead**, of the Deloitte AI Academy Explorer program. | *Deloitte, USI* |
| 2022 | **Award for outstanding performance or innovation**, recognized for delivering outstanding client results. | *Deloitte USI* |
| 2019 | **Mentored sophomore students in Python**, by providing guidance on fundamentals, aiding in assignment completion, and conducting labs and tutorials. | *Bennett University* |