

SHLOK SAH

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EDUCATION

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| The Ohio State University , Columbus, OH | January'21 – December'22 (expected) |
| <i>Master of Science, Computer Science and Engineering</i> | GPA- 3.76/4.00 |
| • Relevant Coursework: Artificial Intelligence, Data Mining, Algorithms | |
| National Institute of Technology (NIT) , Kurukshetra, India | July'15 – May'19 |
| <i>Bachelor of Technology, Electronics & Communications Engineering</i> | GPA- 8.73/10.00 |

EXPERIENCE

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| American Express , Gurgaon, India | June'19 – January'21 |
| <i>Programmer Analyst, Enterprise Digital & Analytics</i> | |
| <ul style="list-style-type: none">Analysed large amounts of data to develop, review, and execute economic & analytical solutions to drive profitable marketingCreated a HiveQL based monthly process to prepare portfolio level data of international card members (60MM+). Developed complex queries extracting and joining source level information from multiple tables and data bases within big data environment.Optimized the US upper funnel process by identifying and removing process dependencies on data with later SLAs; added multiple levels of automated quality checks (QC) to reduce human intervention resulting in reduced SLA by 30%.During Covid-19, developed Pyspark based Ad hoc report to identify weekly KPIs in US market (50MM+) for business leaders to take decisions on retaining card members; successfully met TTM deadline in work from home. | |

PROJECTS

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| CommonLit Readability Prize , Kaggle | June'21 – Present |
| <ul style="list-style-type: none">Built algorithms to rate the complexity of reading passages for grade 3-12 classroom use as commercially available text readability methods are expensiveDeveloped an end-to-end pipeline to pretrain, fine-tune and extract word embeddings from transformer models to achieve best RMSE score. | |
| Natural Disaster Tweets Prediction , Kaggle [Project link] | April'21 – May'21 |
| <ul style="list-style-type: none">Performed data exploration, cleaning, visualisation, modelling and hyperparameter tuning to optimize the accuracy and predict if the tweet is about a real disaster or not.Developed various classification models like SVM, Word2vec, BERT to achieve model F1 score of 81% | |
| ATLAS , American Express | August'19 – January'21 |
| <ul style="list-style-type: none">An initiative to create a Big Data-based analytical data layer by migrating from the legacy platform to centralize the portfolio-wide information in one placeResponsible as a researcher for designing and coding new logics using Hive and Pyspark to ensure data integrity in the new platform | |

LEADERSHIP & SERVICE

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| Placement Co-ordination Committee , NIT Kurukshetra | July'18 – May'19 |
| <i>Student Head</i> | |
| <ul style="list-style-type: none">Established a close communication and coordinated between students and recruiters throughout the hiring processTrained new student members on soft skills, protocols, and logistics knowledge required in preparation for placement duties | |
| Confluence'19 , NIT Kurukshetra | September'15 – May'19 |
| <i>Committee Head</i> | |
| <ul style="list-style-type: none">Managed and trained a team of volunteers to cover 15+ college events through photography and videographyDeveloped strategies to increase followers, engagement, and lead generation for fest sponsors | |

SKILLS & INTERESTS

Softwares: C++, Python, MySQL, Linux, MS Excel, MS PowerPoint
Concepts: Pandas, Spark, Natural Language Processing (NLP), Hadoop, MapReduce, Data Structures & Algorithms (DSA),
Industry Knowledge: Data Warehousing, Data Migration, Big Data Analytics
Languages: Proficient in English and Hindi