Shlok Sah

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EDUCATION

The Ohio State University, Columbus, OH   **January'21 – December'22 (expected)**
Master of Science, Computer Science and Engineering   GPA- 3.76/4.00

National Institute of Technology (NIT), Kurukshetra, India   **July'15 – May'19**
Bachelor of Technology, Electronics & Communications Engineering   GPA- 8.73/10.00

EXPERIENCE

American Express, Gurgaon, India   **June'19 – January'21**
Programmer Analyst, Enterprise Digital & Analytics
- o Created 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
- o Optimized the US upper funnel process by identifying process dependencies on data with later (service-level agreements) SLAs; added levels of automated quality checks (QC) to reduce human intervention resulting in reduced SLA by 30%
- o 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 deadline in work from home

The Ohio State University, Columbus, OH   **June'21 – August'21**
Summer Research Assistant, Mershon Center
- o Developed web scraping tools in Python to explore the relationship between globalization, strategic party, and voter coordination across 60+ French constituencies with different types of electoral systems

The Ohio State University, Columbus, OH   **August'21 – Present**
Graduate Teaching Associate, Department of CSE
- o Teaching instructor for CSE 1224: Introduction to Computer Programming in Python

PROJECTS

Brain Science Project, The Ohio State University   **July'21 – Present**
- o Analyse data across 120 patients with ADHD (Attention-deficit hyperactivity disorder) using Python to study the data and propose an efficient way to treat ADHD in neurofeedback
- o Improve domain knowledge about brain networks and regions responsible for different stimuli response for further research

Natural Disaster Tweets Prediction, Kaggle [Project link]   **April'21 – May'21**
- o Performed data exploration, cleaning, visualisation, modelling and hyperparameter tuning to optimize the accuracy and predict if the tweet was about a real disaster
- o Developed various classification models like SVM, Word2vec, BERT to achieve model F1 score of 81%

ATLAS, American Express   **August'19 – January'21**
- o Created a Big Data-based analytical data layer by migrating from the legacy platform to centralize the portfolio-wide information in one place
- o Designed and programmed new logics using Hive and Pyspark to ensure data integrity in the new platform

SKILLS & INTERESTS

Coursework: Artificial Intelligence, Data Mining, Algorithms
Software: C++, Python, SQL, Bash, Jupyter, MS Excel, MS PowerPoint, AWS Lambda, AWS DynamoDB
Concepts: Pandas, Spark, Web scraping (Beautiful Soup), Hadoop, Data Structures & Algorithms (DSA)
Industry Knowledge: Data Warehousing, Data Migration, Big Data Analytics
Languages: Proficient in English and Hindi

LEADERSHIP & SERVICE

Placement Co-ordination Committee, NIT Kurukshetra   **July'18 – May'19**
Student Head
- o Established a close communication between 150+ students and 20+ recruiters throughout the hiring process
- o Trained new student members on soft skills, protocols, and logistics knowledge required in preparation for placements

Confluence'19, NIT Kurukshetra   **September'15 – May'19**
Committee Head
- o Managed and trained a team of volunteers to cover 15+ college events through photography and videography
- o Developed strategies to increase followers, engagement, and lead generation for event sponsors