SHUBHAM BHAGWAT

Boston, MA | (857) 376-9411 | bhagwat.s@northeastern.edu | http://www.linkedin.com/in/shubham-bhagwat

EDUCATION

Northeastern University, Khoury College of Computer Sciences, Boston, MA.　　　　　　**Expected May 2023**
Candidate for Master of Science in Data Science　　　　　　**GPA: 3.5**
Key Courses: Algorithms, Introduction to Data Management and Processing, Supervised Machine Learning, Foundations of AI.

University of Pune, India　　　　　　**July 2017 - August 2021**
Bachelor of Engineering in Information Technology　　　　　　**GPA: 3.9**
Key Courses: Machine Learning, Statistics, Data Structures & Algorithms, Data Visualization, IoT, Data Science & Big Data Analytics, Data Warehousing and Data Mining, Operating Systems, Computer Network.

TECHNICAL KNOWLEDGE

Languages:　Python3, R Programming, C, C++, HTML5, CSS, Bash, PHP, Java
Database:　MySQL, MongoDB, SQLite, PostgreSQL
Tools:　Tableau, Power BI, Apache Spark, Tshark, R-Studio, Git, IBM Watson Studio , Docker, Airflow
Frameworks:　TensorFlow, Keras, Flask, FastAPI, BeautifulSoup, Selenium, Sklearn, Bootstrap, PyTorch, PySpark, Requests
Certifications:　TensorFlow for AI, ML and DL, Data Science Professional Certificate by IBM, Google IT Automation with Python

PROFESSIONAL EXPERIENCE

Northeastern University, Boston, MA
Graduate Teaching Assistant | Data Structures, Algorithms, and their Application in Computer Systems　　　**January 2022 - Present**
- Conducted office hours, code-reviews & tutored 10+ students with conceptual understanding, good design practices, & debugging.

Northeastern University, Boston, MA
Research Assistant　　　　　　**September 2021 - December 2021**
- Analyzed 81 IoT devices for behavioral changes in DNS and TLS network traffic over 3 years of historical data.
- Found 5 devices having unexpected exposures and encryption changes using Tshark, Bash, Python, Machine Learning, and Visualization and marked unusual activity for further investigation.

Interleap, Pune, India
Data Engineer Intern　　　　　　**February 2021 - April 2021**
- Automated ETL process across billions of rows of data to improve team efficiency by 29%.
- Devised customer insight analysis for 3 clients based on engagement and task completion.
- Optimized code to ensure accuracy of data and efficient extract, thereby, contributing to Six Sigma Quality Assurance.
- Generated 7 clean-up files by troubleshooting missing data and handled data discrepancies.

Plutozy, Pune, India
Data Analyst Intern　　　　　　**July 2020 - November 2020**
- Implemented 20+ functions, 15+ triggers, and 18+ stored procedures to manipulate data on MySQL server.
- Utilized SQL Power Tool for tuning database parameters and queries to evaluate and improve throughput by a factor of 3.6.
- Performed ETL across 2 system platforms and sources to validate user-centric scenarios.
- Supervised and imposed new quantitative models to stabilize business and increase efficiency by 22%.

PROJECTS

Vegetable Disease Prediction using Deep Learning　　　　　　**December 2021 - January 2022**
- Devised a system to detect and predict the health of a potato based on leaf. Used Sequential CNN to build the model and is trained using TensorFlow, Keras with an accuracy of 97.75%, 99.47%, and 99.30% for healthy, early blight and late blight respectively. Implemented graphs for training accuracy, loss, and validation accuracy, loss and deployed the system using FastAPI and TF serving.

Cloud Computing Services Database Management System　　　　　　**September 2021 - December 2021**
- Developed a platform to provide computing and storage services by performing database design, data modelling, normalization, data analysis and visualization with a recommendation system along with data processing of over 1 million records using MySQL, Python, Flask and Scikit-learn.

Credit Card Fraud Detection　　　　　　**August 2020 - May 2021**
- Managed a team of 3, to leverage 5 million+ records of Credit Card transactions and built a classifier to detect fraudulent activities and compared performance of Logistic Regression, Random Forest, Decision Tree, Naive Bayes, KNN, k-means Clustering, Anomaly Detection and Support Vector Machines to discern fraudulent from non-fraudulent transactions.

EXTRACURRICULAR ACTIVITIES

- Ensured safety of 1000+ residential students by collaborating with Northeastern University Police Department and residential staff.
- Awarded Intern of the Month in November 2020, for exceptional performance at Plutozy, Pune.
- Lead the Fergusson Junior College Men's Volleyball team as Team Captain for 2 years.
- Organized IoT Workshop as Head of Techtonic event for the annual college-level technical fest in 2019.