OMKAR DOLAS

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EDUCATION

University of New Haven (UNH) -Tagliatela College of Engineering **New Haven, CT**
Master of Data Science | GPA: 4.0 *Aug 2024 -May 2026*
Coursework: Introduction to Deep Learning, Neural Networks for NLP, Machine Learning, Python for Data Scientist, Introduction to AI, Distributed & Scalable Engineering, Mathematics for Data Scientist

TSSM's BSCOER, Pune India (SPPU) **Pune, India**
Bachelor of Engineering in Computer Science| GPA: 9.8/10 *July 2018-May 2021*
Undergraduate Project, Pneumonia Detection using Deep Learning.

WORK EXPERIENCE

Amdocs **Pune, India**
Software Developer *March 2022 - Jun 2024*
- Developed ETL scripts that processed and transformed over 1.5 billion data records daily, improving data pipeline efficiency by 30% and reducing processing time by 4 hours per day.
- Automated data collection and reporting processes using Python, reducing manual effort by 75% and saving approximately 15 hours per week in repetitive tasks.
- Led the migration of over 1.5 TB of data from Teradata, Oracle, Hive, HBase, and Snowflake, increasing data accessibility and improving query performance by 20% across platforms.

Rahitech software Solution **Pune, India**
Internship Trainee *July 2021 - Jan 2022*
- Executed over 500 SQL queries per week to extract and manipulate data from 5+ relational databases and data warehouses, improving data retrieval efficiency by 40%.
- Analyzed datasets containing up to 10 million records using Python libraries such as Pandas and NumPy, uncovering insights that contributed to 15% improvements in business strategies.
- Validated and cleaned 1-2 million data points weekly using Python, ensuring data accuracy and consistency, which led to a 20% reduction in data-related errors.

ACADEMIC PROJECTS

Credit Card Fraud transaction analysis project **University of New Haven | Nov 2024 – Nov 2024**
- Used Python and Pandas to clean and preprocess millions of transaction records, transforming raw data into structured formats for further analysis and improving data processing efficiency by 30%.
- Applied machine learning algorithms with Scikit-learn and XGBoost to build predictive models that identified fraudulent transactions with 85% accuracy, optimizing fraud detection rates.

Suggestion Mining **University of New Haven | Aug 2024- Aug 2024**
- Reimplemented existing state-of-the-art for suggestion detection using parallel feature extraction layers comprising of BERT embeddings, Glove-Cove embeddings & CNN with attention to achieve an F1-score of 77.78%.
- Designed and developed a Shared Parameter LSTM with an adversarial loss to leverage multi-task learning for detecting suggestions with an F1 score of 77.72% (equivalent to the state-of-the-art performance).

Deep Learning Projects (CV/SR/NLP) **University of New Haven | Dec 2024– Dec 2024**
- *Computer Vision*: Developed a face verification system using Resnet-34 (built from scratch) with an AUC score of 0.91.
- *Speech Recognition*: Identified phoneme phrases from Mel spectrogram frames using a 3-layer BiLSTM and beam search to achieve an average Levenshtein distance of 8.38.
- *Language Modelling*: Built a speech to text transcription system using a Pyramidal BiLSTM encoder, attention-based decoder, Teacher Forcing, and Locked Dropout to achieve an average Levenshtein distance of 11.4.

SKILLS

- **Programming Languages:** Python, SQL, Java, R, Scala
- **Databases:** MySQL, Oracle, HBase, Teradata
- **Data Technologies:** Snowflake, Azure Data Factory, Apache Spark, Databricks
- **Machine Learning and Statistical Techniques:** Machine Learning, Time Series Forecasting, Logistic Regression, Random Forests, Statistical Modeling, Data Mining
- **Data Analysis and Development:** Data Analysis, Dashboard Development, Automation Scripts, Analytical Tools Development