

SOHAM SANDEEP SHINDE

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EDUCATION

Northeastern University, Boston, MA

Sep 2021 - Present

Khoury College of Computer Sciences

Expected Graduation: Dec 2023

Master of Science in Data Science

GPA : 3.86

Related Courses: Supervised & Unsupervised Machine Learning, Algorithms, Deep Learning, Natural Language Processing

University of Mumbai, Mumbai, India

Aug 2017 – Jun 2021

Don Bosco Institute of Technology

Bachelor of Engineering in Computer Engineering

GPA : 3.84

Related Courses: Big Data Analytics, Cloud Computing, Artificial Intelligence(AI) & Soft computing, Software Engineering

SKILLS

Programming Languages:	Python, R, SQL, Java, C, C++, C#
Frameworks:	NumPy, pandas, SciPy, scikit-learn, Keras, TensorFlow, PyTorch, NLTK, Matplotlib
Databases:	MySQL, NoSQL, Oracle, Firebase, PostgreSQL, MongoDB, Hadoop, SQL Alchemy
Machine Learning:	Regression, Random Forests, Boosted Models, SVM, K-Means, CNN, Neural Networks
Tools & Certifications:	AWS EC2, S3, Spark, Microsoft Azure, Tableau, Excel, Scrum Fundamentals Certified 🔗

WORK EXPERIENCE

Data Science Engineer Intern | SS&C Intralinks | Waltham, MA

Jun 2022 – Dec 2022

(Python, Machine Learning, Natural Language Processing, Docker, Kubernetes, OpenCV)

- Developed **Topic Labelling** model using **PageRank** and Trigrams to generate high-quality labels and categorize key concepts
- Implemented OCR approaches of **OpenCV**, MS Table-Transformer and Tesseract to extract tabular data from scanned PDFs
- Enhanced quality of Keywords using ALTOXML and utilized Longformer for **Named-Entity-Recognition** task in Chinese
- Deployed standalone production models as **Docker** containers using **Kubernetes** for rigorous testing and efficient servicing

Khoury Teaching Assistant | Northeastern University | Boston, MA

May 2022 – Apr 2023

- Mentored **60+** students conducting code sessions for **Database Design, Data Science Foundation & Unsupervised Learning**

Mobile Analytics Intern | TwinTring LLP | Mumbai, India

Mar 2020 – May 2020

(Python, Tableau, Java, Android Studio, Swift, XML, REST API, Firebase)

- Developed GPS navigation and networking app for tracking activity data, resulting in CFR of **98.9%** for **80+** bike rider groups
- Analyzed customer usage data using **Tableau** dashboards and recommended **personalized routes** and relevant ride challenges

PUBLICATION

ML-Based Shopping System with Recipe Recommendation (Python, NLP, TF-IDF, CBFA)

Oct 2020 – Mar 2021

International Conference on Communication information and Computing Technology, 2021 IEEE (ICCICT) [🔗](#)

- Designed a **Recommender System** to suggest top 10 recipes based on ingredients in dynamic cart for a dataset of **80k+** values
- Employed Collaborative Filtering to suggest associated products and predict tags using Text-Rank and Content-based Filtering
- Conducted **Sentiment Analysis** on **15K** records, improving user shopping experience by embedding Tableau analytics content

PROJECTS

Claim Prediction in Travel Insurances (SMOTE, Random Forest, XGBoost, Flask, REST API)

Feb 2022 – Apr 2022

- Developed an **ensemble** using boosted models to classify imbalanced claims data using feature selection and SMOTE analysis
- Utilized Flask framework to deploy the trained model as REST API, with prediction accuracy of **94.69%** and F1-Score of **0.84**

Electricity Price Forecasting (LSTM, ARIMA, SARIMA, Time series, Neural Networks)

Dec 2021 – Feb 2022

- Forecasted** daily and yearly prices using **Timeseries** analysis obtained by scrapping generation, consumption, weather data
- Feature engineered** candidate variables using sliding window and applied Auto-Regression Differencing for reduced errors
- Achieved a low Mean APE of **9.69%** for LSTM Model, outperforming the SOTA Kaggle model with **32%** reduced (RMSE)

Semantic Segmentation with SWIN Transformers (PyTorch, Tensorflow, Deeplab, Resnet)

Feb 2023 – Present

- Implemented state-of-the-art using **UNET**, **Transformers** and transfer learning by fine-tuning model on **5k+** Cityscapes data
- Achieved significant improvement in mIOU score of **63%**, utilizing **SWIN** attention residual mechanism with ML Perceptrons

Question Answering model using BERT and its derivatives (Python, BERT, Hugging Face)

May 2022 – Jul 2022

- Created a scalable QnA model by leveraging preprocessed **Word2Vec**, **SIF** embeddings on **SQuAD v1.1** with **100K+** pairs
- Achieved high accuracy of **81%** EM and **84.5%** F1-Score by implementing **Distil-BERT-BERT** ensemble transformer model