# SHWETA MISHRA

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· https://mishraco.github.io/ShwetaPortfolioWebsite/

## PROFESSIONAL EXPERIENCE

**Northeastern University, Boston, MA**                                    Sep 2023 – Dec 2023
**Graduate Teaching Assistant | Advanced Python Programming**
- Guided 100+ students in advanced Python programming, teaching data visualization, coding best practices, and dashboard development

**Tenneco, Northville, MI**                                                May 2023 – Sep 2023
**Global Supply Chain Data Scientist (Planning Team)**
- Implemented a real-time Power BI dashboard to analyze buyer behavior, resolving 100% of untracked losses by monitoring customer return credits and alerting sales reps
- Consolidated annual savings of $200k by creating a ROI model for freight fees & analyzing fee changes

**Auxi.AI, Boston, MA**                                                    Jan 2023 – May 2023
**Machine Learning Engineer**
- Designed a Flask app integrating Python-pptx and OpenAI GPT-3 for AI-generated PPTs, achieving a 4.2/5 user satisfaction rating with a Bootstrap UI based on AIGC Principles
- Drafted an image segmentation add-in for Auxi.AI using CNN and Transformer techniques, converting 10+ sketches to PowerPoint slides, enhancing workflow efficiency

**Accenture, Bengaluru, India**                                            May 2018 – Sep 2021
**Senior Software Engineer – Fintech Team**
- Created 30+ Oracle dB2, SQL, and Power BI reports and dashboards, improving decision-making and data integrity, reducing reporting turnaround by 27%
- Coached 4 interns and launched a knowledge session for new joiners in the Bengaluru office

## PROJECTS

**Multimodal Forecasting of Solar Irradiance**                             Oct 2023 – Dec 2023
*Academic Project | Time-Series Forecasting, Transfer Learning*
- Engineered a multimodal forecast system with Prophet and Inception V4 for meteorological data, achieving a 6.6% MAPE, evaluated using RMSE and R2 metrics

**Visual Question & Answering (VQA)**                                       Jun 2023 – Aug 2023
*Personal Project | Transformer, Image Content Query*
- Developed a Chrome extension featuring a Visual Question Answering model, utilizing a 4-stage neural network with CNN image encoder, textual encoder, and LSTM decoder, achieving a 0.66 WUPS score.

**News Text Summarization**                                                Nov 2022 – Dec 2022
*Academic Project | NLP, BART, BLEU, ROUGE Score*
- Revolutionized news text summarization using extractive and abstractive methods, achieving a BLEU score of 0.85 with GloVe, seq2seq, and T5 model

**Hack Harvard**                                                           Oct 2022 – Oct 2022
*Personal Project | Assembly AI, Streamlit | Major League Hacking (MLH)*
- Led a 36-hour Hackathon to develop a Streamlit app, ZMatter, to provide insights (Text, Summary, and Gist) from educational content of TikTok videos using AssemblyAI API

## EDUCATION

**Northeastern University,** Boston, MA                                     Jan 2022 – Dec 2023
**Master of Science in Data Science**
**KIIT University,** Bhubaneswar, India                                     Jul 2014 – Apr 2018
**Master of Science in Data Science**

## SKILLS

**Tools and Languages:** Python, SQL, C++, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Matplotlib, Plotly, Seaborn, OpenCV, Git, Oracle-HCM, PowerBI, Tableau, MySQL, Apache Spark, Azure ML Studio, AWS SageMaker, Databricks, Redshift, MS Excel, Docker
**Machine Learning:** Plotly Dashboard, Statistical Analysis, Hypothesis Testing, XGBoost, Decision Tree, Natural Language Processing, Computer Vision, Recommendation Systems
**Community Member:** Rewriting The Code (RTC), Women Who Code, The Data Club, GHC '23, ODSC