

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+ Power BI dashboards leveraging Oracle dB2, and advanced SQLs, 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

Bachelor of Technology in Electronics & Telecommunication

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.