**Urvashi Dube**

dube.u@northeastern.edu | 236-863-3298 | [github.com/ UrvashiDube02](https://github.com/UrvashiDube02)| [LinkedIn](https://www.linkedin.com/in/urvashi-dube-79b765191/)

**Technical Skills and Knowledge**

* **Framework**s: Anaconda, Jupyter Notebook, Google Colab, PowerBI
* **Languages**: Python, SQL, Microsoft Excel
* **Python Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn, Seaborn, Plotly
* **Technical skills:** Data Science, Machine Learning, AI
* **Algorithms:** Supervised Learning (Regression, Classification), Unsupervised Learning (Clustering), Reinforcement Learning

**Professional Experience**

**Junior Business Analyst Intern** Jun 2022 – Aug 2022

*GlobalCert, Singapore, SG*

* Presented with challenge of reducing employee screening time, enhancing e-commerce customer attrition analysis, the objective was to offer analytical support through utilization of complex data sets while upholding data quality standards.
* Managed databases leveraging MySQL and employed Power BI for data visualization. Applied Random Forest, SVM algorithms for analysis and prediction, showcasing strong analytical skills and attention to detail.
* Achieved 92% accuracy rate in predictions, and received a letter of recommendation from the CEO for automated employee selection system that was constructed, reflecting a commitment to quality and effective change management.

**Data Analyst Intern**  Jan 2022 – May 2022

*Bonrix Software Systems, Gujarat IN*

* Pursued data collection and analysis to facilitate the creation of a novel IoT-based camera in the realm of IoT and facial expression analysis.
* Integrated OpenCV, NumPy, Pandas, and Sklearn for data processing with a team, showcasing adeptness in software development life cycle, statistical techniques, and collaboration among team members.
* Accomplished expression forecasting with 91% accuracy leveraging Random Forest, showcasing problem-solving skills while mentoring employees, elevating analytical capabilities of company, and bolstering stakeholder management.

**Predictive Analyst Intern** Aug 2021 - Sept 2021

*Tevatron Technologies Pvt. Ltd., Uttar Pradesh IN*

* Analyzed unstructured big data related to COVID-19 with the objective of refining a Decision Tree model for enhanced accuracy and relevance.
* Investigated leveraging hyperparameter tuning, utilized Python tools for trend analysis, thereby highlighting the capability to independently work with complex data sets and analyze them effectively.
* Achieved an 88% accuracy improvement for the model, demonstrated proficient decision-making and problem-solving skills while actively participating in real-world use cases.

**Data Insights Intern** Jul 2021 – Aug 2021

*NITK-STEP, Karnataka IN*

* Predicted stock rates accurately two years into the future leveraging real-time stock market operations analysis.
* Employed and meticulously administered SVM and Random Forest algorithms, working independently to ensure the quality and accuracy of data in stock rate predictions.
* Achieved high level of accuracy, reaching 90%, in predictions, showcasing proficiency in data analysis and visualization.

**Projects**

**Dry Bean Classification Using Machine Learning**  2023

* Developed high-precision neural network, meticulously fine-tuned it for accurate classification of 14 dry bean varieties.
* Led team of five, with mentoring and coaching, employed OpenCV, NumPy, and Pandas in Anaconda, Python.
* Attained an accuracy of 90.79%, demonstrated steadfast commitment to effective decision making and delivered results that align with rigorous quality standards, underscoring leadership within the project.

**Projected Price Prediction for Property in 5 years** 2022

* Formulated a model for predicting property prices of Vancouver property data over the next five years.
* Conducted in-depth analysis, with a focus on quality data collection, accurate forecasting, and exercised judgment and utilized Python, Pandas, and Sklearn.
* Devised a model with 85% accuracy that understands market trends and not only analyzes data effectively but also engages with online communities, enhancing the company's business analysis capabilities.

**Publications**

**Cost Effective Railway Track Fault Detection** 2020

* Constructed a high-accuracy crack detection algorithm with innovation in railway track health monitoring.
* Utilized OpenCV in Python for algorithm development, showcased analytical skills and precision.
* Exhibited model with 92% accuracy, before a panel of 5 senior technical engineers at International Conference on IoT Based Control Networks & Intelligent Systems - ICICNIS 2021 and published in SSRN, Elsevier Digital Library, demonstrated expertise in problem-solving and written communication.

**Efficient Pipe Monitoring System and Hazard Detection** 2020

* Cultivated efficient system for predicting the lifespan of pipes to enhance pipe health monitoring and hazard detection.
* Implemented IoT solutions using ThingSpeak, Raspberry Pi, and the Decision Tree Algorithm, demonstrating proficiency in analytical support, software development, and generating detailed reports for comprehensive reviews.
* Predicted pipe lifespan with 95% accuracy and presented findings at International Conference on IoT Based Control Networks & Intelligent Systems - ICICNIS 2021 and published in SSRN, Elsevier Digital Library, showcased ability to provide solutions and engage in effective stakeholder management.

**Education**

**Master of Science in Data Analytics Engineering**  Dec 2023

*Northeastern University, Vancouver, BC*

* CGPA of 3.84/4.00
* Awarded Certificate of Achievement for Inspirational Growth mindset by Dean of Northeastern University.

**Bachelor of Technology in Electronics and Communication Engineering**  May 2022

*Vellore Institute of Technology, Vellore, Tamil Nadu, IN*

* CGPA of 3.58/4.00

**Competitions**

**Responsible AI Symposium at Northeastern University, Vancouver** 2023

* Awarded the prestigious recognition at the Responsible Artificial Intelligence Symposium 2023 for pioneering research and application of Responsible AI in healthcare, triumphing over 40 competitors.

**Zeal Hackathon** 2022

* Acquired the first position by spearheading the creation of an application enabling real-time display of stock availability in nearby stores during COVID 19 pandemic leveraging Python and Power BI visualizations.