**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 Consultant Intern** Jun 2022 – Aug 2022

*GlobalCert, Singapore, SG*

* Tasked with challenge of streamlining employee screening and e-commerce customer retention, provided analytical consulting services, leveraging business analytics and digital transformation strategies to optimize processes.
* Managed databases using MySQL, demonstrating tech-savvy skills, and utilized Power BI for insightful data visualization, reflecting adaptability and design thinking approach.
* Employed Random Forest and SVM algorithms for innovative and flexible predictive analysis, achieved 92% accuracy rate in forecasts, earning recognition from CEO for automated employee selection system that embodied effective client management and process improvements.

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

*Bonrix Software Systems, Gujarat IN*

* Engaged in agile data collection for an IoT-based camera project, as a committed and tech savvy grad, with focus on facial expression analysis and e-learning applications.
* Integrated tools like OpenCV, NumPy, and Sklearn, showcasing collaborative and mentoring skills in team setting, emphasized business process role understanding and consulting solutions in tech.
* Successfully predicted expressions with 91% accuracy using Random Forest, highlighting negotiating skills and capacity for innovative problem-solving.

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

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

* Highlighted as committed and results-driven professional with expertise in coaching and data analysis, specialized in enhancement of Decision Tree models for better adaptability and accuracy, particularly in the context of COVID-19.
* Focused on hyperparameter tuning and trend analysis using Python, demonstrating independent working skills and understanding of digitization in business consulting.
* Improved model accuracy by 88%, showcasing effective decision-making in real-world consulting scenarios.

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

*NITK-STEP, Karnataka IN*

* Predicted stock rates with high accuracy by employing SVM and Random Forest algorithms, independently ensuring data quality and accuracy.
* Achieved 90% accuracy level in stock rate predictions, demonstrating proficiency in data analysis and visualization, key in business analytics and consulting services.

**Projects**

**Dry Bean Classification Using Machine Learning**  2023

* Developed high-precision neural network for classification of dry bean varieties, employing design thinking approach in project.
* Led team of five, focusing on mentorship, collaboration, and utilized tools like OpenCV, Pandas in Anaconda, Python.
* Attained an accuracy of 90.79%, upholding rigorous quality standards and demonstrating leadership and adaptability.

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

* Formulated model predicting Vancouver property prices over the next five years, illustrating skills in client management and process improvement.
* Conducted in-depth analysis with focus on accurate forecasting, using Python, Pandas, and Sklearn.
* Devised model with 85% accuracy, understanding market trends and engaging with online communities, enhancing 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 3.79/4.00
* Awarded Certificate of Achievement for Inspirational Growth mindset by Dean of Northeastern University.
* Achieved a distinguished position among the top 6 teams in the Spexi-Hackathon by employing advanced data analysis techniques on drone aerial images.

**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.