**Urvashi Dube**

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**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 Data Scientist Intern** Jun 2022 – Aug 2022

*GlobalCert, Singapore, SG*

* Tackled the challenge of streamlining employee screening and enhancing customer attrition analysis in the banking sector, utilized predictive analytics to improve fraud analytics and member engagement strategies.
* Managed databases using MySQL, demonstrating accountability and detail-oriented skills, implemented Power BI for dynamic data visualization, showcasing creativity and strong presentation skills.
* Developed and implemented Random Forest and SVM algorithms for strategic development in resource allocation and fraud detection, achieving a 92% accuracy rate, this initiative boosted loyalty and rewards models in retail banking.
* Contributed to organization’s proficiency in strategic forecasting. predictive analytics in financial sector, showcasing strong presentation skill.

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

*Bonrix Software Systems, Gujarat IN*

* Spearheaded the data-driven development of an IoT-based camera for facial expression analysis, focusing on retail customer behavior, underscored the use of emerging technologies and forecasting methodologies.
* Integrated OpenCV, NumPy, Pandas, and Sklearn for data processing, played a pivotal role in strategic organization development and enhancing collaborative and interpersonal skills.
* Led a team in expression forecasting with 91% accuracy using Random Forest, enhancing company’s ability to forecast customer trends and improve member engagement in retail scenarios.

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

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

* Analyzed unstructured big data related to COVID-19, with a focus on mortgage market trends, showcasing deep love for data-driven insights, refined Decision Tree model, enhancing forecasting accuracy.
* Demonstrated committed leadership in conducting hyperparameter tuning, showcasing adaptability and detail-oriented mindset, showcased exciting behaviour and ability to gain and share knowledge within a team environment.
* Enhanced data quality, accuracy by 88%, analyzed data using statistical techniques, thereby improved model accuracy.

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

*NITK-STEP, Karnataka IN*

* Showcased professional communication, relationship-building skills by working efficiently with stock data, SVM, Random Forest algorithms, effectively navigating complex scene of data analysis and collaborated with project owners.
* Predicted stock rates with a 90% accuracy rate, leveraging real-time market operations analysis. Focused on strategic development and forecasting methodologies for financial markets.

**Projects**

**Dry Bean Classification Using Machine Learning**  2023

* Developed a neural network for classifying 14 dry bean varieties, demonstrating future oriented thinking and an articulate approach, highlighted ability to apply emerging technologies in agriculture, showcasing innovative behavior.
* Led a team of five with a collaborative and creative approach, achieving an accuracy of 90.79%, showcased strategic relationship building and effective stakeholder management.

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

* Developed a predictive model for Vancouver property prices, focusing on mortgages and market forecasting, demonstrated accountability and data-driven approach in property market analysis.
* Achieved 85% accuracy in price forecasting, surpassing performance points and earning recognition for delivering exceptional results, thereby helping the company to grow, aced an interview with stakeholders.

**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.
* 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.