

Sudhish Subramaniam

subramaniam.su@northeastern.edu | 236-863-4776 | github.com/Sudhish21 | [LinkedIn](#)

Technical Skills and Knowledge

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

Professional Experience & Projects

Data Analyst Intern

Jan. 2022 – May 2022

Bonrix Software Systems, Gujarat IN

- Manufactured a microcontroller application to detect faces and face points leveraging **OpenCV** and executing two machine learning algorithms namely **Decision Tree algorithm**, **Random Forest**, ultimately achieved maximum accuracy of 91%
- Partnered with two major clients for preferences and modifications specific to product and executed client requirements accordingly

Data Insights Intern

Jul. 2021 - Aug. 2021

NITK-STEP, Karnataka IN

- Assessed current and past five-year stock rates of companies from Bombay Stock Exchange in **Power BI dashboards, functions** and **Python** administering data management skills such as **MySQL, Numpy and Sklearn**
- Mapped previous and current stock rates leveraging **Decision Tree Algorithm** and **Random Forest algorithm** to predict future stock rates with 90% accuracy

Artificial Intelligence Intern

Jun. 2020 - Jul. 2020

Hawkescode, Rajasthan, IN

- Spearheaded COVID-era challenges for credit card firms, predicting attrition and optimizing credit limits with advanced analytics
- Navigated intricate project dynamics, fostering communication for peak outcomes with team and stakeholders
- Harnessed a dynamic skill set, mastering data-driven decisions, **Logistic Regression, linear regression**, and credit industry dynamics for enhanced customer retention strategies

Artificial Intelligence Intern

Mar. 2020 - Apr. 2020

ICT Kanpur, Uttar Pradesh, IN

- Inspected machine learning algorithms such as **Support Vector Machine, Decision Tree algorithm and Random Forest Algorithm**
- Evaluated titanic survivors data in python by applying data mining techniques such as **Sklearn, matplotlib and pandas** to explore trends among survivors in terms of gender, class, age, and location in ship
- Predicted if a person would have survived titanic tragedy using **Decision Tree Algorithm** with maximum accuracy of 92% accuracy

Projects

-
- Worldwide Labour Migration Analysis using LinkedIn Data** 2023
- Analyzed and visualized labour migration in the world based on home country, target country, industry, and skills of people in **Python**
 - Evaluated in-bound and outbound trends in net migration of 180 countries in the world to analyze country-wise labour market
 - Effectively led a team of five in conducting meticulous model testing, yielding comprehensive findings that enabled in-depth analysis and the generation of valuable insights, showcasing strong leadership and communication skills
- Multipurpose IOT-Based Camera Using Deep Learning** 2022
- Developed a robust model using **OpenCV** and **Machine Learning**, achieving 91% accuracy in detecting masks, eyes, eyeball status, and head pose for individuals with or without masks
 - Executed a market expansion plan to deploy the model in diverse settings, including online and offline proctored exams, classrooms, and driver monitoring systems, to assess attentiveness

Publications

-
- FetchZo: Real-Time Mobile Application for Shopping in Covid** 2020
- Pioneered a model for shopping purposes in COVID-19 pandemic situation to locate nearest shop by **K-means clustering** to cluster shops having specific items, with 90% accuracy, and give an update on current number of people present in shop leveraging **OpenCV**
 - Demonstrated app and presented model at International Conference on Sustainable Communication Networks and Applications, **ICSCN, 2020**
- Automatic and Multi-Dimensional Pipe Cleaning Bot for Covid** 2020
- Fabricated a robot to cleanse inner sides of different diameter pipes automatically with one operator during COVID 19 situation
 - Implemented **OpenCV** and **Random Forest Algorithm** to detect and predict dirt areas of pipes where human hands cannot reach with 91% accuracy

Education

-
- Master of Science in Data Analytics Engineering** Dec. 2023
Northeastern University, Vancouver, BC
- CGPA of 3.84/4.00
- Bachelor of Technology in Electronics and Communication Engineering** May. 2022
Vellore Institute of Technology, Vellore, Tamil Nadu, IN
- CGPA of 3.58/4.00
 - Awarded Merit Certificate for Academic Excellence 2019 - 2020

Competitions

-
- Responsible AI Symposium at Northeastern University, Vancouver** 2023
- Achieved award at the Responsible Artificial Intelligence Symposium 2023, surpassing 40 other contenders, through my extensive research and dedication to harnessing Responsible AI's potential to improve healthcare
- Chai Time Hack** 2022
- Secured first position as a team, developing a robust application for detecting store occupancy during the COVID-19 hackathon leveraging **Python**, **Bluetooth**