# Vishad Mehta

Boston, MA - (857) 395 4511 - mehta.vishad@northeastern.edu - linkedin.com/in/vishadmehta

## EDUCATION

**Northeastern University (GPA: 4.0)** **Boston, MA, USA**
*MS in Software Engineering Systems* *September 2023 - Expected May 2025*
- **Relevant Coursework:** Program Structures and Algorithms, UI/UX Design, Object Oriented Design, Web Design

**SRM University (GPA: 9.3/10)** **Chennai, TN, India**
*B.tech in Computer Science and Engineering, specialization in Cloud Computing* *June 2019 - May 2023*
- **Relevant Coursework:** Algorithm Design and Analysis, Database Management Systems, Operating Systems, Machine Learning, Cloud Computing, Cloud Security, Computer Networks

## TECHNICAL SKILLS

**Programming Languages:** Python, Javascript, Typescript, C, C++, Java
**Web Technologies:** HTML, CSS, React.js, Node, Express, Flutter, Firebase, MongoDB, Selenium Automation, REST
**ML Technologies:** Scikit-learn, PyTorch, Tensorflow, Keras, Transfer Learning, CNN, YOLO, VGG, ResNet, Faster R-CNN
**Others:** MySQL, PostgreSQL, NoSQL, Tableau, AWS, Pandas, Numpy, OpenCV, Streamlit, Embedded Systems, Git, Github

## PROFESSIONAL EXPERIENCE

**Research Intern**
*King Faisal University, Remote* *April 2022 - October 2022*
- Innovated drone-based Computer Vision algorithms for crack detection, achieving **99.28% accuracy** and **cutting false positives by 20%** with unique feature extraction such as paint exfoliation
- Collaborated on research and co-authored an insightful paper on the utilization of shallow convolutional neural networks for drone-assisted structural integrity assessment, subsequently presented at the **SMARTCOM 2023 conference**.

**Data Engineer Intern**
*Discite Analytics and AI (a DynPro Company), Bangalore, India* *October 2021 - October 2022*
- Engineered and optimized customized dashboards and chatbots, enhancing client interaction for over **4 clients**
- Spearheaded the development of an automated data acquisition system utilizing Selenium WebDriver, which was instrumental in attracting **3 major clients**, each boasting over **$1M in revenue**
- Orchestrated the integration of a chatbot with IoT devices' REST endpoints in response to a client request, culminating in the successful launch of a AWS Lex chatbot for device control
- Launched an NLP-driven resume parsing solution harnessing Spacy's NER and Tesseract OCR technologies, resulting in a remarkable **50% increase** in efficiency for identifying candidates with desired skill sets, significantly saving time, streamlining the recruitment process, and enhancing candidate selection

**Application Developer**
*FreeLancer, Gujarat, India* *January 2022 - March 2022*
- Developed and implemented a Human Resource Management App using Flutter and Firebase, revolutionizing SME operations by eliminating paper-based processes and saving **20 human hours monthly** for a local gas station chain

## PROJECTS

**LuggShare Website** **Boston,MA**
- Pioneered LuggShare, a full-stack web application enhancing luggage space sharing, with integrated Razorpay and Google login for streamlined user experience and security.
- Advanced the app's data management infrastructure, ensuring scalability through a robust React and MongoDB framework.

**Research Project on Administrating College Campuses** **Chennai, India**
- Facilitated the use of existing infrastructure to intelligently manage campus crowds and parking spaces using advanced object detection algorithms, resulting in a **20% reduction** in the time required to find parking spaces
- Designed and hosted a comparative analysis of detection models on a Streamlit web app, making the data accessible to administrators

**Food Recognition Project and restaurant/recipe recommendation** **Chennai, India**
- Constructed an Image Classification model employing a shallow convolutional neural network (CNN) for specialized Indian cuisine recognition, facilitating personalized restaurant and recipe recommendations.
- Achieved an impressive **8-fold improvement** in model training efficiency without compromising accuracy, leveraging advanced methodologies to attain a **92%** validation set accuracy through the use of variously sized filters and pooling layers for effective dimensionality reduction.

## PUBLICATIONS

- Tyagi, R., **Mehta, V.**, Sankaranarayanan, S. (2023). Identification of Cracks in High-Rise Buildings Using Drones and Deep Learning, Smart Trends in Computing and Communications. SMART 2023. Lecture Notes in Networks and Systems, vol 645. Springer, Singapore Link
- **Mehta, V.**, Tyagi, R., Dr.L Anand, Food Recognition Using Deep Learning For Recipe And Restaurant Recommendation (Presented at IRCICD conference 2023 hosted by ACM)