# Bhargav Charudatt Yagnik

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## Education

- **Concordia University** — Montreal,QC
  *Master of Computer Science (Thesis) (Expected Graduation Sept 2023)* — *Sept 2021 – Present*
  *Reinforcement Learning (Mcgill),Algorithms Design Techniques, Distributed System Design, Programming Problem Solving*
- **Symbiosis Institute of Technology** — Pune, India
  *Bachelor of Technology in Computer Science and Engineering;* — *July 2017- April 2021*
  *Algorithms, Computer Networks, Operating Systems, Data Structures, Artificial Intelligence, Database, Big Data Systems.*

## Skills

- **Languages**: Python, Java, R, C++, C, SQL, NoSQL, JavaScript, Angular, Spring
- **Framework / Libraries**: Pytorch, Tensorflow, Hugginface, Databricks, Selenium, OpenCV, Matplotlib, Scikitlearn, Keras, Pyspark, Tableau, Plotly, REST API,Docker, PowerBI, GIT, Jenkins, Hadoop, MongoDB
- **Certifications**: AI&ML, Deep Learning,TensorFlow Developer, Six Sigma Yellow Belt, Architecting with Google Compute Engine, MLOps

## Experience

- **Ericsson Canada** — Montreal, Canada
  *MITACS Research Intern* — *Sept 2022-Sept 2023*
  - **Flood Detection**: Creating cutting-edge models using ML to forecast floods in low-lying areas of several Quebec municipalities. Guided by Prof. Brigitte Jaumard and funded by MITACS.
- **SCAAI** — Pune,India
  *Research Assistant* — *June 2020-June 2021*
  - **Authored**: 3 Research papers (2 published) during the tenure which has earned 6 citations as of Sept 2022.
  - **Explainable ai - misinformation detection**: Developed a unified domain adaptative model expanded across multiple social media to perform feature generalization for misinformation detection and Local Interpretable Model-Agnostic Explanations (LIME) for model interpretation which Improved results by 40% in F1 score.
  - **Covid Forecasting**: Implemented Time series forecasting for covid cases for government of maharashtra, demonstrated an full-stack application with visualization and prediction of 6 parameters for 40 days with accuracy up to 99.98% using SARIMA and Prophet algorithms and Chart.js.
  - **Alloy classification**: Lead a team to implement ML models like Decision Tree, Random Forest, SVM, ANN with MLP for titanium alloys classification and obtained accuracy close to 100%.
- **SCAAI** — Pune,India
  *Research Intern* — *Jan 2020- May 2020*
  - **Hate-speech recognition**: Created a dataset in hindi-english code mixed language using automated web-scrapers and introduced a pipeline specific for hinglish and achieved SOTA results using BERT, ELMO and FLAIR.
  - **Ethics paper**: Published a White paper on "Ethics in AI" and submitted it to TechMahindra to promote responsible development administered by rules and guidelines.
  - **Computer vision hackathon**: Placed 3rd in Syngenta hackathon where we implemented a RCNN for image segmentation in 24 hours deployed on server to employ mobile phone for detection.

## Projects

- **Tweet-sent**: Flask based dashboard to implement a realtime NLP-sentiment classifier
  Tech:Keras , NLTK, Flask, Tweepy, Matplotlib, WordCloud, Scikit Learn, Pandas, Numpy.
- **Customer segmentation**: Achieved RMSE of 22.12 segmentation model based on Spending score in the mall
  Tech:R , Plotly, Caret
- **YELP Analyzer**: PowerBI dashboard designed on yelp dataset of 11GB and leveraging Databricks, Azure Datalake.
  Tech:Azure Cloud, Databricks, PowerBI, PySpark, SQL

## Awards and Recognition

- **MITACS Fellowship** for Research under the accelerate program($20k), Concordia University : Sept 2022.
- **Scholarship** Awarded for Academic Performance, Symbiosis Institute of Technology, India: July 2020.
- **Hackathon** Won an award for securing top-10/5000 least-error in cricket score prediction at IIT-Madras.
- **Elected Team Lead** Managed 20 photographers for various college events and coordinated with organizers.