

Bhargav Charudatt Yagnik

Portfolio(chatbot),LinkedIn,Github
Montreal,Canada

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EDUCATION

- **Concordia University** Montreal, QC
Master of Computer Science (Expected Graduation Aug 2023)
Sept 2021 – Present
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, Huggingface, 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, Angular

EXPERIENCE

- **Ericsson Canada** Montreal, Canada
Research Assistant
Sept 2022-Sept 2023
 - **Flood Detection:** Assist in prediction of floods by launching ML model integrated with IOT sensors. 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 adaptive 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 2021
 - **Hate-speech recognition:** Created a dataset in hindi-english code mixed language using automated web-scrappers 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.