Achinth Bharadwai

💌 achinth@student.ubc.ca 📞 +1 (778) 319-8140 🔭 achinth.ca 🛮 in achinthb 🔘 achinth-b 👂 Vancouver

Education

BSc. Combined Major in Computer Science and Statistics, Co-op

Expected 04.2022 | Vancouver, Canada

University of British Columbia

- Major GPA: 3.5/4.0
- Coursework:
 - Computer Science: Software Engineering, Algorithm Design, Relational Databases, Artificial Intelligence
 - Statistics and Data Science: Probability, Inference for Data Science, Regression, Machine Learning

Experience

University of British Columbia

10.2020 - present | Vancouver, Canada

Undergraduate Student Researcher

- Implemented a strength versus deformation curve by conducting exploratory data analysis of seismic resilience data from ageing infrastructure with OpenSeesPy, Numpy and Matplotlib
- Conducting literature reviews on the use of ML algorithms for modelling nonlinear seismic strain

The Boeing Company 🗹

01.2020 - 08.2020 | Vancouver, Canada

Software Engineering Intern, Digital Solutions and Analytics

- Revitalized user experience and load time by 30% for Boeing engineers by leading the redesign of a legacy operations dashboard using Vue and Node.JS
- Relieved major bugs by creating a framework to verify authorization permissions, visualizations and database integrity using Pytest, Flask and Redis Queues for a Dockerized web app, leveraging the Tableau Server Client
- Created a proof-of-concept for a changepoint detection algorithm using Prophet, R-changepoint on Jupyter Notebooks to detect changes in mean time-series data

Involvement

UBC Pandas

12.2020 – present | Vancouver, Canada

Founder and Chancellor-President

- Leading a core team of 5 to found and stipulate UBC's first and only data and ML design team
- Dedicated to facilitating growth in aspiring data scientists and ML engineers by providing a space to develop skills by engaging in Kaggle projects, full-stack ML apps and showcases

UBC Launch Pad

09.2019 - 01.2021 | Vancouver, Canada

Software Developer

- Co-developed 'Footprint', a cross-platform mobile app to aid users in tracking their ecological footprint
- Implemented data visualization and analytics pages using React Native and Expo, pulling from a Flask API
- Refined project management guidelines, conducted UX research and managed recruitment for the design team

Skills

Software: Python, JavaScript, Java, Git, Bash, Vue, React & React Native, C/C++, Docker, Node, Flask, AWS Data: R, PyTorch, Tensorflow, Keras, Pandas, Numpy, SK-Learn, Matplotlib, Tidyverse, OpenCV, MongoDB, SQL

Projects

Wolfram Award: TypeMeNot2

01.2020

- Top 15 programming projects at UBC's largest hackathon with over 400 participants
- a real-time input moderator built as a Chrome extension with Node.JS and the Perspective API for text analysis

Cassava Leaf Disease Detection

01.2021 - present

- Utilized transfer learning from ResNet50 to build a classifier to detect four types of diseased cassava leaves
- Cross-validated images for accuracy and achieved an 82% accuracy using Keras, Tensorflow and Numpy

Yogini 10.2020

- Developed a serverless web app with React and Next. is to aid in online yoga instruction during the pandemic
- Engineered an AR canvas, a pose estimator model with Tensorflow and an algorithm to track limb angles