



JYOTI PRASAD BARTAULA

MACHINE LEARNING TRAINEE

LINKEDIN

GITHUB

LANGUAGES

- English - Fluent
- Finnish - Intermediate
- Nepali - Native

CERTIFICATIONS

- Introduction to Data Science in Python from University of Michigan on Coursera (2018).
- Applied Machine Learning in Python from University of Michigan on Coursera (2017).

PROFILE

A highly motivated data science enthusiast with an excellent command of Machine Learning. Passionate about the ways and opportunities to apply Machine Learning methodologies for solving real-life problems.

RECENT PROJECTS

Web Scraping and Data Processing in Python

Python, BeautifulSoup, Pandas, MySQL, Docker

A complete data chain consisting of extracting, transforming and loading data in the database, in which I scraped the US presidential data from Wikipedia using Beautiful soup library, cleaned the data using the Pandas library, loaded the transformed data in MySQL database running in the Docker container.

City of Helsinki Roadway Management/Inspection (in-progress, private repository)

Python, Keras, TensorFlow

The city of Helsinki Resources and Traffic Management Division requires an AI-based system to continually monitor and update roadway sign status and maintain roadway paint integrity. This project is conducted at Integrify and supervised by Alexander Jung, elected Computer Science teacher of the year 2018 at Aalto University.

Blogging Web Application

Python, Flask, SQLAlchemy

Developed a blog web application using Flask and SQLAlchemy and deployed it in Heroku cloud hosting platform.

U.S. Census Income Prediction

R, Caret

Performed an explanatory data analysis (EDA), applied a SMOTE sampling technique for an unbalanced dataset, and build a random forest and XGBoost-based model to predict the income level among the US population using the data from UCI machine learning repository.

Human Activity Recognition Using Smartphones Dataset

Python, Scikit-learn

Performed the dimensionality reduction of data using principal component analysis (PCA) and feature importance from random forest model and naïve bayes, random forest and support vector machine-based machine learning were build to predict human activity.

SKILLS

CORE

- Python
- Machine Learning
- Data Analysis
- R
- Flask
- MySQL
- Pandas
- Seaborn

ADDITIONAL

- Docker
- Deep Learning
- Tensorflow
- Bokeh
- Amazon Web Services (AWS)

EXPERIENCE

Machine Learning Trainee

Integrify | Helsinki, Finland | June 2019 - Present

- Learning about various data pre-processing and data transformations techniques.
- Modeling problems into different machine learning frameworks.
- Building, measuring and iterating on neural network architectures for effectively solve various problems.
- Optimizing proposed solutions for accuracy and performance.

Co-Creation Partner

Demola | Tampere, Finland | September 2016 - January 2017

- Worked on a project Private Information Leak Detector (PILD) for Insta DefSec Oy.
- Performed various text mining pre-processing steps.
- Completed latent semantic analysis over the document-term matrix.
- Built the machine learning model for text classification.

EDUCATION

M.Sc. in Bioinformatics

University of Tampere | Tampere, Finland | September 2014 - August 2017

B.Sc. in Electrical Engineering

Blekinge Institute of Technology | Karlskrona, Sweden | August 2009 - July 2013