# Bhabaranjan Panigrahi

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# Summary

I am a Computer Science Graduate student specializing in Machine Learning. I have 4 years of industrial experience in Backend Development. Currently, seeking internship opportunities in the field of Machine Learning and Data Science.

#### EDUCATION

# George Mason University

Master of Science in Computer Science

Fairfax, VA, USA

Aug 2022 - Dec 2023

# Veer Surendra Sai University of Technology

Bachelor of Technology in Information Technology

Burla, OD, IN July 2014 - July 2018

#### Relevant Coursework

Theory and Application of Data Mining, Introduction to Artificial Intelligence(AI), Analysis of Algorithms.

## TECHNICAL SKILLS

Python, C++, Tensorflow, SQL, NoSQL, Kafka, Docker, Google Cloud Platform.

## Areas of Interest

Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Multi-modal Learning.

## Projects

## Drug Discovery: @github

- Used **Adaptive Boosting** to handle imbalanced datasets and enforced **Neural Networks** to learn weights for minority class based on previous misclassification. Able to outperform standalone Neural Network by **4.2**%.
- Implemented **Decision Trees** to classify **active** and **inactive** compounds using their **molecular structure** sequence. Used pre and post-pruning techniques to avoid overfitting.
- Used statistics to compute **Entropy** and **Gini-index** to determine optimal splitting. Experimented with **Pre-pruning** and **Post-pruning** to avoid over-fitting. Achieved overall **F1-score** of **85.7**%

## Review Classification: @github

- Implemented K-Nearest Neighbor model with a subset of features using chi-square and information-gain to classify review sentiments.
- Used **PCA** to reduce dimension of data, experimented with **distance metrics** and **hyperparameters** for accurate mapping of clusters.
- Achieved an increase in accuracy by 3.2% using Supervised Weights and achieved overall accuracy of 89.4%

#### EXPERIENCE

**Kroger**Senior Software Engineer

Bengaluru, KA, IN.

Jul 2020 - Jun 2022

- Dynamic Configuration: Implemented a new module to incorporate configuration changes at run time without restarting the application.
- API Migration: Migrated several use-cases interfacing core services to Node.js, with reduced response time.
- Continuous Integration: Added multiple workflows in Gitlab to filter pull requests based on set threshold criteria.

#### Greenroom

Bengaluru, KA, IN.

Nov 2019 - Jun 2020

Software Engineer

- Data Ingestion: I was closely involved in ingesting user events and writen scripts for batch processing.
- Data Scraping: Implemented a service to scrape public data at scale from various blogging/social-media platforms and added auto-recovery from blocked IP.
- Data Visualization: Created interactive Map and Graph visualizations using Deck.gl and react-vis to monitor user activity.
- Containerization: Changed traditional docker build to two-stage docker build and reduce image size by half.

#### StackRoute Labs

Bengaluru, KA, IN.

Software Engineer

- Aug 2018 Oct 2019
- Events for APM: Added telemetry events to plugins to help the Analytics team to generate data-driven insights.
- Plugin development: Contributed to optional and default application plugins to help onboard new clients.

#### ACCOMPLISHMENTS

- Global rank **1046** in **Code Chef Long Challenge** June 2017 out of more than 10,000 participants
- Semi-finalist of Techgig Code-Gladiator coding competition 2018 and 2017.