Bhabaranjan Panigrahi

https://www.linkedin.com/in/bhaba-ranjan/

bpanigr@gmu.edu
+1 571-587-7120
9451 Lee Hwy, Fairfax, Virginia

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** — Fairfax, VA, USA
  Master of Science in Computer Science — *Aug 2022 - Dec 2023*

- **Veer Surendra Sai University of Technology** — Burla, OD, IN
  Bachelor of Technology in Information Technology — *July 2014 - July 2018*

RELEVANT COURSEWORK

Theory and Application of Data Mining, Introduction to Artificial Intelligence, Analysis of Algorithm.

TECHNICAL SKILLS

Python, C++, Scikit-learn, SQL, NoSQL, Kafka, Rabbit-MQ, CI, Docker, Google Cloud Platform.

INDIVIDUAL PROJECTS

Drug Discovery:

- Implemented **Decision Trees**, Ensemble learning like **Bagging** and **Random Forest**, to classify **active** and **inactive** compounds using their **molecular structure** sequence.

- Used statistical methods like **Entropy** and **Gini-index** to choose optimal splitting. Experimented with **Pre-pruning** and **Post-pruning** to avoid over-fitting. Achieved overall **F1-score** of **91.7%**

Review Classification:

- Implemented **K-Nearest Neighbor** model with a subset of features using **chi-square** and **information-gain** to classify review sentiments.

- Used **t-SNE** to visualize and **PCA** to reduce dimensionality of data. Experimented with **distance metrics** and **hyperparameters** to choose optimal value.

- Achieved an increase in accuracy by **3.2%** using **Supervised Weights** and achieved overall accuracy of **89.4%**

EXPERIENCE

Kroger — Bengaluru, KA, IN.
Senior Software Engineer — *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.

Greenroom — Bengaluru, KA, IN.
Software Engineer — *Nov 2019 - Jun 2020*

- **Data Ingestion**: I was closely involved in ingesting user events and writing batch jobs for effective data 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 2018** and **2017**.