Bikash Jaiswal

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Summary

- Software Engineer with experience in designing, implementing, and delivering data-driven applications using best practices..
- Strong grasp of programming and algorithmic concepts, with a passion for leveraging machine learning and Big Data technologies to improve services
- Skilled in Python, Git, PyCharm, IntelliJ, gRPC, Jira, Jenkins, Confluence, Pandas, NumPy, Matplotlib, Scikit-learn, and Agile methodologies.
- Proven track record of building scalable AI solutions and automating data pipelines, resulting in a significant reduction of manual effort and improved performance.
- Strong communicator and team player, able to work with cross-functional teams to prioritize technical requirements and solve complex problems.
- Continuously looking for new challenges in cutting edge technologies like Software Development, Distributed Systems, Cloud, Data Infrastructure, AI/ML, High Scale Data processing and Analytics are few that excites me the most.

TECHNICAL SKILLS

Languages: Python, JavaScript, Rust, C++

Frameworks: React, Nextis, flask

Developer Tools: Git, PyCharm, IntelliJ, Docker, gRPC, Jira, Jenkins, Confluence

Data Science Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, Keras, PyTorch

Concepts: Machine Learning, Algorithm Design, OOP, Functional Programming, Agile, Web & RestFul Services

OS: Linux/Unix, Windows

EXPERIENCE

Software Developer (R&D)

Oct 2021 - Present

Cerence Inc

Montreal, Canada

- Proactive communicator—specifically, working with data scientists who develop the models for building NLP models, and external API provider to continuously prioritise and re-prioritise technical requirements
- Building Conversational AI products that are used in Cerence sonic domains.
- Share the ownership of two major scalable NLP solutions (Astrology & Sports Domains)
- \bullet Developed multiple functional requirements in Sports Domain, moving it from 30% accuracy to 75% accuracy in production environments
- Refactor existing software components to improve their performance, scalability and maintainability.
- Develops new user-facing dialogs, enhances existing dialogs, and maintains legacy dialogs

Research Assistant

Aug 2017 – Sep 2019

Machine Leaning & Big Data Analytics Project, R&D Centre, Tezpur University

Assam, India

- Involved in Analytics Engineering to measure, optimize and build advanced techniques and analytics platforms to extract insights from biological Big Data.
- Automated ETL pipelines which reduced manual effort of data wrangling by 80% and improved time performance by more than 60%.
- Build RESTful api with Flask frameworks for extraction of biologically relevant network modules and performed test automation for deployment of machine learning models (Random Forest, XGBoost) in the university's HPC
- Developed algorithms that work in parallel to perform genes network extraction on Nvidia's GPU, that performs 120x better than serial CPU run time
- Identified 6 biomarker (genes) having 80% potential of causing breast cancer in homo-sapiens
- Published my observations in a paper titled PNME A gene-gene parallel network module extraction method
- Technology Used: Python, C++, CUDA, Scikit-learn, HTML, CSS, JS

PROJECTS

Covid-19 Face Mask Detector | Python, PyTorch, Scikit-learn, Numpy, Matplotlib

• Removed gender bias in a custom trained CNN model for a image classification problem and improved F1 score from 86% to 89% to correctly classify a person wearing a mask or not a mask and not a human image.

Movie Success Forecaster | Numpy, Scikit-learn, Pandas, Matplotlib

- Modified the regression problem of predicting Movies Revenue to Multi-class classification problem to predict movies success class (Hit, SuperHit, Flop, SuperFlop).
- Performed feature engineering for dimensionality reduction, with increase in the performance of prediction when trained with Neural Network, and Ensemble Learning models.

SmartProp: Blockchain-based Decentralised Asset Management Application | ReactJS, CSS, HTML, Solidity

- Investigated the use of Blockchain technology outside the crypto-currency realm to build Dapps (an application built on a decentralized network that combines a smart contract and a frontend user interface).
- In an attempt to learn the key to expanding Blockchain's user base and encounter the limitation of storage problem of Blockchain (only 1 Mb), performed integration of the Dapps in IPFS (A peer-to-peer hypermedia protocol designed to make the web faster, safer, and more open) is used.

EDUCATION

Concordia University

Master of Applied Computer Science

Tezpur University

Bachelor of Computer Science and Engineering

Montreal, Canada

Sep. 2019 - June 2021

Assam, India

Aug. 2013 - May 2017