

ABHISEKH AGARWALA

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Profile Summary

Machine Learning Engineer with total 4+ years of experience. 3+ years of hands-on experience in deep learning, and NLP and 1 year of experience in the software development of ML applications. Proven track record in developing innovative Artificial Intelligence solutions to enhance search engine functionalities and optimize user engagement.

Technical Skills

- Languages: **Python, basic C++ and Java**
- Technology: **Machine Learning, Deep Learning, Natural Language Processing(NLP), Computer Vision**
- Frameworks & Tools: **Tensorflow, Keras, Pytorch, Scikit-learn, REST, Flask, FastApi, Django, Docker, MongoDB, Git**

Experience

Jio Platforms Limited

Nov 2022 – Current

Datascientist

Bengaluru, Karnataka

- **Learning To Rank:** Developed a learning to Rank solution for JioMart's B2B domain significantly enhancing top search results and effectively boosting CTR by 14% and increasing customer engagement.
- **Reranker:** Developed and designed a robust reranking API from scratch in Python and Flask to diversify query search results which increased CTR by 2% for the JioMart b2b.
- Designed and optimized the code, enabling category managers to dynamically configure preferences from the application By integrating MongoDB with the application.

Huawei India Pvt. Ltd.

July 2020 – Oct 2022

Machine Learning Engineer

Bengaluru, Karnataka

- **Ad Ranking:** Developed and trained Logistic Regression and DeepFm models to Rank ads tailored for the Thai language for Huawei's search engine, "Petal search". Integrated various Click Prediction models into the application infrastructure to enhance ad ranking functionalities and user interaction, contributing to the overall effectiveness of the search engine.
- **Model Conversion Service:** Worked on a key project focused on enhancing model interoperability by developing a service to convert models built on different frameworks to other formats using ONNX. Implemented support for the conversion of TensorFlow models to Caffe models, expanding the versatility of model deployment. Conducted rigorous unit testing using pytest, resulting in a significant increase in code coverage from 40 to 90 %.
- **Common Format Adapter:** Developed an API in Python flask from scratch which was used to convert different dataset formats to one common format. Other Services were able to consume this service for dataset conversion, downloading and uploading data from the obs. Created Docker file for easy deployment.

Education

National Institute Technology Silchar

July 2016 – June 2020

B.Tech, Electronics and Communication Engineering, 7.52 CGPA

Silchar, Assam, India

Internship

Centre for Development of Advanced Computing

May 2019 – June 2019

Software Intern

Silchar, Assam

- **Early Forest Fire Detection:** The project aimed to detect forest fires as early as possible. As an intern, I worked in the development and implementation of convolution neural network architecture to detect forest fires.

Projects

Forge signature Detection | *Python, CNN*

Jan 2021

- Designed and executed final-year project focused on the detection of forged handwritten signatures using Convolutional Neural Networks (CNN). Leveraged the power of VGG16 architecture to achieve results.

Makemore | *Python, Pytorch*

Jan 2021

- Trained a MLP model to generate unique names from a dataset of 32k names and containerized the application using Dockerfile.

Spell Check Model | *Python*

Jan 2024

- Developed a statistical Model to identify and suggest correct spelling using Python on Shakespeare dataset.

Honors And Awards

- Awarded Anundoram Borooah award in 2013 By govt of Assam
- Secured all Assam rank 4th in Chemistry Olympiad organized by Society for Chemical Education, Assam(2012).