Kritika Banerjee

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PROFILE

To obtain a position in a company where I can use my technical skills as well as people skills to contribute towards individual and organizational growth and be in learning and improvement process throughout in the field of Data Driven Technology

SKILLS

Python (Data Structures | Scripting) | Machine Learning (Scikit-Learn) | Databases (Mysql | MongoDB) | RestApi (FastAPi | Flask)

Statistics | Deep Learning (Pytorch | Tensorflow | Keras) | MLops (Docker | DVC | MLflow)

Computer Vision (Convolution Neural Networks | Artificial Neural Network | Image Processing) | Cloud (AWS)

ORGANIZATIONS

Cognizant Technology Solutions Corp, Software Developer-Associate Project

Oct 2022 - present

• Handling **Stocks, Investments and retirement services database** for U.S. based Clients majoring in application development role.

Noida, India

· Working on Root cause analysis and bug fixes for production issue and continuous Improvement ideas.

• Technology and Tools-Putty, Linux, SQL, COBOL, Db2, Shell Scripting.

Infosys Limited, Senior Systems Engineer

Nov 2019 - Sep 2022

 Handling complete vehicle logistics from production to end dealer majoring in Application development and support role. Pune, India

- Mainly worked on root cause analysis, bug fixes, production issues and continuous improvement ideas.
- Provides monthly report of root cause analysis to clients using **Power BI**.
- Strong domain knowledge of **Supply and Chain** management lifecycle.
- Technology and Tools- **SQL, DB2**, JCL, COBOL, NATsystems.

PROJECTS

Credit card Defaulter Classification

Problem Statement: To Predict whether a particular person is a credit card defaulter or not.

Technology used: Python, Exploratory Data Analysis, Clustering, Machine learning, Hyperparameter tuning, **Model performance analysis**, Data version Control, Docker.

Result:

- Designed a Flask based web app that can analyze the data to find if a person is credit card defaulter or not based on his payment history, age, education, gender, qualification etc.
- Automated pipelining was done using DVC.
- Deployed on Heruko, GCP and AWS.

Wafer Fault Detection

Problem Statement: To classify whether a given sensor is faulty or not based sensor readings.

Technology used: Python, Exploratory Data analysis, Data Visualization, Data Ingestion, Clustering Logging, Machine Learning, Docker, CircleCI.

Result:

- This Webapp is used to predict weather a Sensor chip is default or not.
- Designed a Flask based webapp which includes **CI/CD** for Data collection, model Training pipeline and model Prediction.
- Deployed dockerized applications on all Cloud Platforms like GCP, Heruko, AWS.

Image Classification

Problem statement: Classify if a given image is of an Ant or Bee using Deep Learning.

Concepts used: Pytorch, Data Augmentation, Deep Learning, Artificial Neural Networks, Convolution neural networks, Transfer Learning, VGG16,Inception net, RESNET, Automated pipelining, DVC, Docker, Heruko.

Result:

- This research based project is able to classify is an input image is an Ant or a bee.
- Explored Various Deep learning approaches like creating my own CNN network and also using other Pre trained models on top of this dataset like RESNET, VGG16.
- DVC was used for data and model version control.

Loan Prediction

Problem Statement: Automate the loan eligibility process to see whether a person is eligible for loan or not based on the features like education, marital status, income, dependents etc. Further extending the POC to see how much loan amount a customer is eligible for. **Technology used:** Python, Data ingestion, Data cleaning, Data Preprocessing, Feature selection, **Customer Segmentation,** Clustering, Model performance analysis, Model version control, **EC2,Logging.**

Result:

- This POC was able to determine whether a person is eligible for loan or not.
- Data extraction and analysis was done using Sql.
- Used two different models based on different clusters



Full Stack Data Science Course, Ineuron

Apr 2021 – present Bangalore, India



B.Tech, Bhagat Phool Singh Women University Electronics and Communication

Aug 2015 – Aug 2019 Sonepat, India