






Vaibhav Sharma

Data Scientist / MLOps Engineer

Details

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Skills, Tools

Python	Brew
Airflow	MLflow
DeltaLake	Databricks
Poetry	Regex
Nox	Flask
Click	Django
Numpy	SQL
Pandas	JIRA
Brew	Putty
PySpark	Git
Scikit-learn	C++
NLTK	TensorFlow
Azure	Keras
Pytest	

IDEs : Pycharm, IntelliJ,
VSCode, Dbeaver,
WebStorm

Profile

- Results-driven and highly skilled individual with over 5 years of experience in developing and deploying innovative machine learning solutions in healthcare industry. Highly Proficient in Python and it's frameworks. Have experience working on cloud as well as on on-prem. Proven ability to collaborate effectively with cross-functional teams to deliver scalable and robust machine learning solutions.

Employment History

Data Scientist at Optum, Gurgaon (Feb 2022 -)

Project UnifAI

- Worked in the Engineering Team of Optum Labs for Data Science to create an E2E pipeline solutions for all the in house ML models to increase overall efficiency and performances.
- Managed data quality and profiling initiatives for terabytes of data, ensuring accuracy, consistency, and completeness.
- Performed efficient data migration from Parquet format to Delta format, ensuring data integrity, optimized storage, and improved query performance.
- Developed a user-friendly Brew installer for seamless installation of our project, simplifying the onboarding process for end users.
- Utilized MLflow for efficient and reproducible machine learning model development, tracking, and experimentation.
- Implemented data/model pipelines using Airflow, orchestrating and scheduling tasks for efficient data processing and workflow automation.

Others

- Volunteered as Scrum Master, facilitating agile practices and ensuring smooth team collaboration and project delivery.
- Software owner for pycharm

Software Engineer - (R&D) at Vitrana, Noida (July 2019 - Feb 2022)

Data Extractor

- Improved the Efficiency of Data Extraction using various Machine Learning and Deep Learning techniques such as NER (BiLSTM, BERT), COREF, Relational Modeling and Object Detection in python on different type of Medical Unstructured text, Narratives, forms etc.



Projects In College

- **Text2Face** - Facial image generation using Generative Adversarial Networks (GANs).
- **Blistick(Blind's Stick)** - Development of an app for visually impaired people using object detection and face recognition.(Android, Python, OpenCV)
- **Secure soldier monitoring** - IOT module to extract real time information of a soldier in battlefield and securing its server end with Blockchain

- Data analysis using pandas, Scikit-learn, matplotlib, regex, OpenCV and other tools as well in python.
- Developed the Tf Serving Architecture for the deployment and version controlling of all the ML Models.

HiLIT

- Worked as a Developer in migrating Company's Major Project "Hilit" from a Monolithic Architecture to MicroServices based Architecture.
- Development of microservices in Java.
- Service Discovery and Distributed Logging in Python.

ML_WorkFlow

- Developed a tool that facilitates in train, test, evaluate and predicting all the In-House Machine Learning models with easy to use User Interface.

Jira Report Generation

- Created an internal tool to fetch, analyze and visualize all employees daily activities on Jira that can monitored by higher management.



Extra-Curricular

- Received Talent in Spotlight Reward at Optum
- 98.59 percentile in GATE-2019
- Presented a paper - "Developing a Secure Soldier Monitoring System using IOT and Blockchain" in ICSC - 19 conference.
- Presented a Hands-on Session on Image Processing in Computational Methods for Medical Image Analysis Workshop.
- School Captain



Education

B. Tech (Hons) in Computer Science and Engineering ,Jaypee Institute of Information Technology, Noida CGPA (8.0)
[June 2015 – July 2019]

XII (Computer Science) , Kendriya Vidyalaya, Dwarka Sec-5 , 93.6%
[April 2014 – March 2015]

X , Kendriya Vidyalaya, Dwarka Sec-5 , CGPA 10
[April 2012 – March 2013]



Internships

Student Trainee at DRDO, Scientific Analysis Group, Metcalfe House, Delhi,
2017 – 2018

- Cryptanalysis of A5/1 Cipher (used in GSM communication) using Rainbow tables and implementing it in GSM decoding."

Intern at Sumer Verde Technologies, Noida

June 2018 – July 2018

- Developed an IOT module comprising various sensors and Nodemcu microcontroller for collecting relevant data like temperature, pulse rate and distance etc. Alongside, developed an app for remote tracking/monitoring.