Abhishek Kumar

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PROFILE SUMMARY

I am a seasoned data science professional with approximately 4 years of experience. My expertise spans designing and implementing solutions for real-life challenges in the finance and energy industries using ML/DL concepts, big data, and cloud-based technologies. I am adept at writing production-ready code. My core strengths lie in problem-solving, solution implementation, and delivering scalable solutions aligned with business goals.

EDUCATION

IIT DHANBAD
M.Tech in Computer Science
2018 - 2020 | Dhanbad, Jharkhand
CGPA: 8.87 / 10.0

UNIVERSITY OF ALLAHABAD
B.Tech in Computer Science
2014 - 2018 | 74.1% | Allahabad, UP

JNV SAHARSA
Intermediate CBSE(XII)
2011 - 2013 | 90 % | Saharsa, Bihar
Tenth CBSE(X)
2010 - 2011 | CGPA 10 | Saharsa, Bihar

SKILLS

PROGRAMMING
Python • Java • SQL

DATA SCIENCE
Machine Learning • Deep Learning
Docker • Computer Vision • GCP
GenAI • TensorFlow • Torchserve
Hadoop • Hive • PySpark
Feast • BashScript • Airflow
Numpy • Pandas • sklearn
Open CV • Pytorch • MLflow
BigQuery• PubSub • PowerBI

PRODUCTIVE TOOLS
VS Code• Anaconda • Git
Jupyter Notebook/ lab
Excel • Tableau • Jira
Linux • Windows • Azure DevOps
Eclipse • Vertex AI Notebook

CODING PROFILES
HackerEarth:// **@abhi588**
LeetCode:// **Abhishek**
CodeChef:// **abhishek**
kaggle:// **@abhi**

EXPERIENCES (4 YEARS)

SLB (SCHLUMBERGER) | Machine Learning Engineer II
July 2022 - Present | Pune, India

- Developed vision-based algorithms for productivity (people count, workstation, and tools utilization) and health and safety non-compliance (mechanical lifting, PPE kit, zone intrusion) in industrial floor settings. Achieved 80% accuracy.
- Trained and fine tuned DL models on custom image datasets of persons, hats, gloves, and tools for object detection, segmentation, and classification.
- Engineered model service architecture using TorchServe, increased fps 2 to 4.
- Streamlined deployment in different locations based on a custom developed CI/CD module using Docker, Azure Pipelines, Git, Google Container Registry, and other GCP services. Which reduced use-case deployment time by 75%.
- Revamped architecture through scheduling, logging, Pub/Sub integration, code modularization, unit testing, monitoring, dashboards, and MLops integration.
- **Tech**-Python, OpenCV, Torch, Tensorflow, YOLO, Torchserve, Image processing, GCP(Bigquery,PubSub,Log Explorer, Vertex AI,GCR), GenAI, SAM.

NATIONAL PAYMENTS CORP. OF INDIA | Associate Data Science
Nov 2020 - July 2022 | Hyderabad, India

- Responsibility includes fraud Model building, feature engineering, Exploratory data Analysis,Model training and testing, data pipelines script generation, scheduling, service validation, user profiling, data docs preparations.
- Built several ML models for P2P(Person to Person), P2M(Person to merchant) fraud detection which serves almost 25cr UPI transactions per day. Built vpa (text) clustering model using NLP library. Reduced fraud by 60% in ecosystem.
- Contributed in Generation of more than 200 features for every customer on UPI platform, EDA, Visualization, automating training and testing of ml models.
- **Tech** - Python, Java, Machine learning, Deep learning, HiveQL, Spark SQL, MLflow,Big Data, Hadoop, Bash script, MLflow, Airflow, Superset,Feast,Ray

ERICSSON INDIA | SDE Intern | July - Dec 2019 | Chennai, India

- Created a Maven Plugin for Dependency visualization of 5G Charging Feature and Functionality using UML.Developed an script for downloading Json and XML files stored in Cassandra database using cil interface. Used Java, Python, Maven, Cassandra, Javascript, html

TCS | Intern | June 2017 - Aug 2017 | Lucknow India

- Developed a desktop based application "School Management System".

PUBLICATIONS & PROJECTS

- **PATENT** publication on Innovation title **Video analytics for industrial floor setting.** Reference **PCT/US2024/63/485,939**
- **PLANT DISEASE DETECTION** | M.Tech | Jan20 - May20
  Created predictive model for classification of Plant's disease based on leaf images(Plant Village Dataset). Used CNN, Keras, Python, Image Processing to predict detect disease and achieved accuracy of 96.1%.

ACHIEVEMENTS

Received **PBS CEO & Bronze Award** for Digital Factory project at **SLB** (2023)
Received **Circle of Excellence Award** for my contribution at **NPCI** (2022)
Qualified for **regional** round in **ACM ICPC** Coding competition. (2017)