Mithilesh Narayan Chaurasiya

+91–9325732481   mithileshchaurasiya1627@gmail.com   My Portfolio   GitHub   LinkedIn

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Professional Summary

Driven Machine Learning Engineer and Data Scientist with 2.8 years of experience at Infosys, focusing on Big Data Engineering and ETL processes. Proficient in building and deploying deep learning models with Python, TensorFlow, Keras, and FastAPI, turning raw data into valuable insights. Expertise in data manipulation using Pandas, NumPy, SQL, and NoSQL databases to solve complex, real-world problems. Passionate about developing innovative, data-driven solutions that make a measurable impact and are scalable for the future.

Key Skills

- **Programming Languages:** Python, SQL, Java

- **Data Engineering:** Apache Spark, Airflow, Hadoop, Snowflake, MongoDB

- **Data Analysis & Wrangling:** Pandas, NumPy, SQL Developer (Oracle)

- **Machine Learning & Deep Learning:** Scikit-learn, TensorFlow, Keras, PyTorch, CNN, ANN

- **Web & API Development:** Flask, FastAPI, Streamlit, Postman

- **Automation & CI/CD:** Jenkins, Azure DevOps, Selenium, Excel Macros

- **Version Control:** Git, GitHub

- **Cloud & Deployment:** Microsoft Azure, Railway

Soft Skills

- **Problem-Solving:** Analytical mindset to optimize algorithms and data pipelines.

- **Collaboration & Adaptability:** Effective team player, quickly adapting to new technologies and collaborating across teams to integrate solutions in dynamic environments.

- **Client Interaction:** Direct experience in interacting with clients to gather requirements, understand their needs, and deliver data-driven solutions at Infosys.

Education

Master of Computer Application (MCA)   *Pursuing*
National Institute of Technology, Agartala

Bachelor of Science in Computer Science   2021
Thakur College of Science and Commerce, Mumbai
CGPA: 8.87%

Higher Secondary Certificate (HSC)   *2018*
Utkarsha Vidyalaya & Junior College, Mumbai
Percentage: 64%

Secondary School Certificate (SSC)   *2016*
Jai Deep Vidya Mandir High School, Mumbai
Percentage: 75%

Professional Experience

Infosys Ltd.   *June 2021 – January 2024*
Role: Senior System Associate / ETL Tester

- Contributed to production data pipelines and ML systems through ETL testing and validation. Ensured data quality with Oracle, MongoDB, and Snowflake. Automated QA with Selenium and Excel macros, deployed solutions via Jenkins and Azure.

- Optimized end-to-end ETL pipelines for ML-ready datasets used in analytics and forecasting models.

- Automated regression and smoke testing using Selenium and Excel Macros, reducing manual effort by 40

- Validated APIs using Postman and supported model endpoint integration testing.

- Contributed to CI/CD with Jenkins and Azure DevOps for seamless deployment.

- Contributed to Agile/Scrum sprints as part of an 8-member engineering team, helping deliver 15 features on time; supported client interactions and incorporated feedback into the development cycle.

Projects

Real-Time Gender Detection
Tools & Technologies: Python, TensorFlow, OpenCV, CNN

- Developed a deep learning-based system using Convolutional Neural Networks (CNN) to classify gender from facial images.

- Processed and trained on a dataset of over 3,000 labeled images to achieve high accuracy in face recognition and gender classification.

- Implemented OpenCV for real-time face detection, ensuring smooth and efficient image processing.

- Optimized model performance by fine-tuning hyperparameters, reducing error rates, and achieving a detection accuracy of over 90%.

MockAnalysis: Automated Mock Test Result Analysis System

Tools & Technologies: Python, Selenium, Pandas, Matplotlib

- Designed and developed an automated system to scrape and analyze mock test results from web portals using Selenium.
- Processed and visualized data using Pandas and Matplotlib to provide detailed insights into performance trends.
- Automated report generation, reducing manual effort and time spent on analysis by 40%.
- Hosted the project on GitHub, showcasing clean code practices and detailed documentation.

BihariBlogger — Social Blogging Web App

Tools & Technologies: Flask, Python, HTML/CSS, MongoDB, Bootstrap

- Built a blogging platform with user authentication, CRUD operations, and mobile-responsive design.
- Integrated MongoDB with Flask-PyMongo for dynamic post storage and retrieval.
- Implemented user session handling, post search, and category-wise filtering.

Heart Disease Prediction ML Model

Tools & Technologies: Python, Scikit-learn, Pandas, Matplotlib

- Developed a machine learning model to predict heart disease using patient medical records.
- Applied feature engineering, classification models, and performance evaluation.
- Achieved high accuracy through model tuning and validation techniques.

PIMA Diabetes Prediction ML Model

Tools & Technologies: Python, Scikit-learn, Pandas, Seaborn

- Implemented a logistic regression model to predict diabetes using the PIMA Indian dataset.
- Conducted exploratory data analysis, preprocessing, and model evaluation.
- Measured performance using accuracy, precision, recall, and F1 score metrics.

Extracurricular Activities

- **Volunteer, College Fest Committee**
  Assisted in planning and organizing technical events, seminars, and cultural activities.

Certifications

- **Accenture North America - Data Analytics and Visualization Job Simulation**
  Credential ID: 2tG6WLM2W5Yv9jJ

- **Infosys Certified Selenium with Python Automation Tester**

- **Infosys Certified Software Development Engineer in Test (SDET)**

- **Infosys Certified Digital Assurance Professional**

- **Infosys Certified Python Programmer**

- **Infosys Certified Data Management Associate**

- **Machine Learning Foundations**
  Issued by Great learning
  View Certificate

- **Computer Vision Essentials**
  Issued by Great Learning
  View Certificate

- **Python for Machine Learning**
  Issued by Great Learning
  View Certificate

Hobbies

- Reading
- Photography
- Traveling