

Dr. Mitali Shewale

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EXPERIENCE

Data Scientist, NDS Infoserv

Mumbai, Maharashtra, India (Nov 2024- Present)

- Implementing a cutting-edge machine learning model for automating medical coding processes, ensuring timely project delivery and fostering a collaborative work environment. This transformative project revolutionized the efficiency of medical record analysis for a prominent insurance company in the United States
- Develop algorithms using Natural Language Processing and Deep Learning models for predicting ICD-10 CM and CPT codes.

Assistant Professor, Veermata Jijabai Technological Institute,

Mumbai, Maharashtra, India (July 2024- Nov 2024)

Doctoral Researcher, Veermata Jijabai Technological Institute,

Mumbai, Maharashtra, India (Aug 2019 - June 2024)

EDUCATION

Ph.D (Artificial Intelligence; 2019-2024): GOLD MEDALIST

Veermata Jijabai Technological Institute, Mumbai, Maharashtra (India)

M.Tech (Embedded Systems; 2016-2018): GOLD MEDALIST

Government College of Engineering, Jalgaon, Maharashtra (India)

B.E (Electronics and Telecommunication; 2012-2016)

Government College of Engineering, Jalgaon, Maharashtra (India)

SUMMARY

Data Scientist and a detail-oriented researcher with a strong background in statistical analysis, data ingestion, data analysis, deep learning, natural language processing, machine learning, and data visualization. Proficient in using tools such as Python, R, SQL, and Excel for data manipulation, modeling, and predictive analytics. Experienced in deriving actionable insights from complex datasets to support decision-making and business strategies. Skilled in hypothesis testing, and building models to forecast trends and optimize processes.

SKILLS

Programming Language: C, OOPS, PLC, Python, Embedded C, SQL, R

Database: MySQL

Analytical tools: Turbo C,

MATLAB, Oscar, Proteus, Multisim Keil, Cisco Packet Tracer, Wireshark, Power BI, SEQUEL, EDSIM51, Jupyter Notebook, Energia IDE, PuTTY, Arduino, Raspberry Pi, Node MCU, Advanced Excel

Framework: TensorFlow, Sci-kit Learn, Keras, Pandas, Numpy, Seaborn, PyTorch

Visualization Tools: Power BI

NUMBER OF BOOK CHAPTERS WRITTEN: 25

NUMBER OF BOOKS EDITED: 6

JOURNAL PUBLICATIONS: 10

PROJECTS

- A novel deep learning optimized algorithm for early disease detection, classification and diagnosis of tomato plant leaves using image-based analysis
- IoT-based plant monitoring system for hydroponics agriculture
- Customer churn
- Flight Booking Price Prediction
- Classification – Credit Score
- Biosignal Analysis for Smoking
- Credit Card Fraud Detection
- Revenue Prediction
- Predicting Heart Disease
- Sentiment analysis
- Classification of movie reviews from the IMDB dataset into positive or negative sentiments using RNN the model
- Querying a large relational database
- Automatic ambulance rescue system

CERTIFICATION COURSES

- Advance certification in Data Science and AI
- Generative AI
- Natural language processing
- MS SQL Developer Course
- Advance Computer Vision: Application to food Image Analysis
- Machine learning Image Processing Computer Vision
- AI for Everyone
- Cyber threats and attack vectors
- Cybersecurity and the Internet of Things
- Introduction to Cybersecurity Tools and Cyber Attacks
- Industrial IoT markets and security
- Introduction to Machine Learning
- Introduction to IoT and Embedded Systems
- IoT: Multimedia Technologies
- IoT: Sensing and Actuation From Devices
- IoT: Communication Technologies