

Shibu Mohapatra

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PROFILE

With domain expertise in AI, Data Science, RPA, and DevOps, I leverage my skills and experience to develop and deploy advanced models across diverse industries. My proficiency in Machine Learning, Deep Learning, NLP, MLOps, GIT, Data Analytics, GenAI, and LLM enables me to deliver high-quality solutions to each business's unique needs.

WORK EXPERIENCE

Skills Agency Bengaluru, India

Junior AI Developer

06/2024 - 08/2024

- Synergized a cross-functional team and French coordinators to develop an AI chatbot for the MySQL database, leveraging Python, Langchain, SQLAlchemy, and GPT-4, to boost process efficiency and deliver high-quality results through natural language interaction.
- Launched an AI-driven video streaming chatbot for the Skills website, utilizing Python, HeyGen, LLM, OpenAI, JavaScript, ChromaDB, and WebRTC, enhancing user engagement and delivering dynamic Skills info.

Guidewire Software

Bengaluru, India

RPA Engineer Intern

05/2023 - 10/2023

- Collaborated with a 7-member cross-functional and revenue team to develop an end-to-end BI Finance RPA bot using Python and Automation Anywhere. Streamlined GW dataset/report generation and cut execution time to a few minutes, saving 8+ man-hours and elevating efficiency.
- Showcased expertise in AWS Green Machine, Data Analytics, Python, Oracle Fusion, Oanda foreign exchange, Vertex global tax, Coupa P2P, ERP, and ETL, significantly enhancing bot execution.

Analytics Vidhya

Remote, India

Author

09/2022 - 04/2023

- Project 1 - Developed a 94%-accurate Natural Language Processing (NLP) sentiment analysis model for retail, boosting customer satisfaction and average order value.
- Project 2 - Created a Machine Learning model to classify phishing URLs using Regression for a software industry, improving accuracy by 35% and creating a best-fit model.
- Project 3 - Evaluated CNN, DNN, and LSTM performance on the MNIST dataset with a Deep Learning model.

EDUCATION

Nagindas Khandwala College, University of Mumbai

Mumbai, India

Master of Science in Artificial Intelligence

07/2021 - 06/2023

- GPA: 9.88 / 10 (A+ Grade)

Nagindas Khandwala College, University of Mumbai

Mumbai, India

Bachelor of Science in Computer Science

07/2018 - 06/2021

- GPA: 8.63 / 10 (A Grade)

SKILLS

- **Languages:** Python, R, SQL
- **Databases:** MySQL, OracleSQL, PostgreSQL, ChromaDB
- **Technology:** Data Science, Machine Learning, NLP, RPA, Deep Learning, Computer Vision, Generative AI, GPT-4
- **Libraries:** Pandas, Numpy, NLTK, Keras, Scikit-Learn, TensorFlow, Matplotlib, SpaCy, OpenCV, PyTorch, PySpark
- **Algorithms:** Regression, SVM, Autoencoder, LSTM, Neural Networks, Transfer Learning, Transformers, GAN, LLM
- **Cloud:** Google Cloud Platform, Kubernetes, Docker, Oracle Fusion Applications, AWS, Databricks
- **DevOps:** GIT, StreamLit, MLFlow, MLOps, Terraform, SoapUI, CI/CD, Django, Flask, Hugging Face, Node.js
- **Tools:** AutoML, Automation Anywhere, UiPath, JIRA, Linux, Ubuntu, Data Analytics, Data Extraction, Time Series Analysis, Statistical Modeling, Predictive Analytics, OpenAI, RAG, Langchain, Hadoop, JavaScript, SQLAlchemy

PROJECTS

Assistant.ai

11/2023 - Present

- An innovative Generative AI assistant powered by GPT-4, Langchain, OpenAI, LLM, Retrieval Augmented Generation (RAG), and StreamLit, translating user instructions into dynamic web apps and delivering research-based solutions, reducing 40% development time and boosting user engagement by 50%.

Automl.ai

12/2022 - 06/2023

- Engineered a standalone AutoML application to automate the entire Machine Learning pipeline using StreamLit, PyCaret, Pandas, and Scikit-Learn: automl-ai-app-6z8hpb.streamlit.app.

Caption Generation and Object Detection

09/2022 - 11/2022

- Utilized COCO, PyTorch, and NLTK for language pre-processing; employed a CNN encoder and LSTM decoder to train on GPU. Implemented Object detection using TensorFlow, YOLO, resnet50, and RetinaNet.

House Price

08/2022 - 09/2022

- Deployed a house price prediction using MLOps, Lasso, Ridge, and Linear Regression: [house-price-prediction](#).

Insurance Prediction

06/2022 - 08/2022

- A Machine Learning Operation (MLOps) model for average insurance price prediction using MLFlow, Django, Flask, PostgreSQL, and Terraform, with CI/CD automation via Git/GitHub: [insurance-mlflow](#).

Spam Classification

03/2022 - 05/2022

- Created an NLP model to accurately classify SMS messages as spam or not spam, including user-defined text, enhancing message filtering efficiency.

COMPETITIVE CODING & HACKATHONS

DataHack: Job-A-Thon

01/2023

- An algorithm for VahanBima Insurance to predict Customer Lifetime Value with 89% accuracy using Regression, Ridge, and Decision Tree: [CLTV Prediction](#).

DataHack: Job-A-Thon

11/2022

- Used historical trend data in XGB and Random Forest models to forecast hourly energy demand for the next three years, achieving a competitive RMSE score: [Green-Forecast](#).

DataHack: Job-A-Thon

08/2022

- Predicted the Click-Through Rate of an email campaign using AutoML and Regression, achieving 74% accuracy: [CTR](#).

CERTIFICATIONS

- Databricks: Machine Learning
- Automation Anywhere: RPA Professional
- UiPath: RPA Business Analyst
- Kaggle: Computer Vision
- Microsoft: Azure AI
- Google Cloud: Generative AI
- Automation Anywhere: Bot Developer
- Kaggle: Machine Learning
- Coursera: Deep Learning Specialization
- Coursera: AWS Fundamentals

ACHIEVEMENTS

- **Awards:** Secured 1st Rank in Master of Science.
- **Kaggle - Datasets Expert:** Achieved medals on highly competitive datasets and top 10% rank in various competitions.