Sancharee Das

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PROFESSIONAL SUMMARY

Product Leader with an overall experience of 14 years in Data Analysis, Predictive Modelling, Test Management, and enterprise Product Management. Contributed towards building customer-centric scalable machine learning solutions, while working closely with engineering and UX teams as part of the end-to-end product development lifecycle. Extensive domain experience working in the BFSI and Payments industry, engaging with stakeholders and influencing business decisions related to product goals, features, and priorities. A self-motivated individual with an ever-learning mindset, seeking leadership positions to continue guiding the team and contributing to business growth.fn

SKILLS

Technical Skills: Neural Networks, NLP, Exploratory Data Analysis, Data Visualization, Deep Learning, Artificial Intelligence, Machine Learning, Reinforcement Learning, Regularization, Logistic Regression, Linear Regression, NumPy, Pandas, Sci-kit Learn, Keras, TensorFlow, Matplotlib, Seaborn, Python, Javascript, SQL, Flask, Heroku, Azure, Git, Docker.

EXPERIENCE

Lead Engineer
Maersk Global Services Pvt Ltd **July 2021 – Feb 2023, Bangalore, India**

• Managed a 15-member cross-functional (product, engineering, data, support) team and coordinated with 3 business partners towards the successful launch of the supply chain destination platform
• Trained and deployed a deep-learning based Azure ML model that could predict the demand for empty containers at busy ports with 78.34% accuracy leading to lowered demurrage and detention costs.
•Built predictive models using linear regression and recurrent neural network to forecast the regional empty container availability at different ports.
•Identified factors that influence the delivery time of shipment from port to consignee and developed a neural network based model for predicting the delivery times.
• Identified opportunities for standardization and automation of existing processes (delivery planning for shipments and container management) using predictive machine learning algorithms.
• Collaborated with cross-functional teams involving Business, UX research, and End Users to drive business outcomes by understanding customer preferences and defining product roadmap.
• Developed product specifications, user stories, and acceptance criteria, and ensured that product features are delivered on time.

Product Lead
Innova Solutions Pvt Ltd **March 2018 - July 2021, Bangalore, India**

• Led a core team of 13 software engineers and data scientists in designing and building a smart payment platform.
• Identified new business opportunities that could utilize predictive machine learning algorithms to increase customer engagement.
• Defined the preprocessing and feature engineering to be done on a given data along with data augmentation pipelines.
• Conducted exploratory data analysis on a dataset of 7,000 payments to identify patterns in fraudulent payments.
• Developed an XGBoost model with 92.37% accuracy that helped in scoring online payments in terms of low, medium, or high risk and flagging them accordingly.
• Applied time-series analysis to track the normal frequency of transactions for the onboarded customer accounts to detect anomalies and irregular spikes like massive fund withdrawal or high volume purchase.
• Created a recurrent neural network model that could successfully predict monthly cash demand at ATMs (accuracy 80.65%)using ATM/cash transaction messages successfully authorized and approved by the smartedge payment gateway.

Lead Engineer
LnT Infotech Pvt Ltd **May 2016 - June 2017, Bangalore,India**

• Led a team of 15 engineers having diverse skill sets, reducing the test cycle time by 40% and maximizing the team's productivity through mentoring.
• Implemented a BDD test framework that enabled writing 500 feature files and close to 3000 test cases in 4 months.

Associate
JP Morgan Chase **February 2015 - May 2016, Bangalore,India**

• Authored regression tests of Equity and Fixed Income modules resulting in a 33% reduction in test cycle time.
• Participated in requirements management, including requirement analysis and reviewing requirements for testability.

Associate Consultant
Siemens Technology and Services Pvt Ltd **September 2013 - November 2014, Kolkata, India**

• Analyzed the application design to deliver the same in accordance with specifications with over the 80% target.
• Conducted scalable and maintainable automated tests to ensure consistent performance before release increasing test automation coverage for 100+ test cases by 75%.

Programmer Analyst
Cognizant Technology Solutions **September 2007 - March 2013, Kolkata, India**

• Prepared automated scripts to enhance the regression testing process, leading to a 75% reduction in manual testing of repetitive tasks.
• Increased test script accuracy by 40% and reduced UAT defects by 45%.

PROJECTS

MS THESIS: Vision-Based Fatigue Detection in Drivers Using Multi-Facial Feature Fusion
Liverpool John Moores University **September 2021 - June 2022, United Kingdom**
• Introduced a deep-learning based model to detect driver fatigue under both normal and challenging driving conditions.
• Developed a customised MTCNN (Multi-Task Cascaded CNN) network for fast and accurate face detection, achieving an accuracy of 99.3% (98.6% for straight face and 99.6% for smiling face).
• Trained and tested LSTM based classification model on quality facial data with a recall score of 0.99 and f1-score of 0.98.

Sentiment Based Model for Product Recommendation
International Institute of Information Technology Bangalore **August 2021 - September 2021, Bangalore,India**
• Performed a sentiment analysis of user reviews on popular products to extract the polarity of reviews, resulting in a model that predicted with an accuracy of 85% the positivity of user reviews.
• Implemented TF-IDF Vectorization for feature extraction followed by a Random Forest model for sentiment classification with an f1-score of 0.85.
• Deployed a Flask web application on Heroku that predicts user sentiment based on reviews and recommends the product with the highest predicted rating.

EDUCATION

MS in AI and Machine Learning
Liverpool John Moores University • United Kingdom • 2022

Master of Computer Applications
Sikkim Manipal University • Sikkim, India • 2013

BSc. In Statistics
Minor in Economics, Mathematics • University Of Calcutta • Kolkata, India • 2007

CERTIFICATIONS

Microsoft Certified: Azure Data Scientist Associate
Microsoft • 2023
Certifies the application of data science and machine learning skills needed to implement and run machine learning workloads on Azure, using Azure Machine Learning Service

Microsoft Certified: Azure AI Fundamentals
Microsoft • 2023
Certified knowledge of machine learning (ML) and artificial intelligence (AI) concepts and related Microsoft Azure services

Microsoft Certified: Azure Fundamentals
Microsoft • 2022
Certified knowledge of cloud concepts, Azure services, Azure workloads, security and privacy in Azure

Postgraduate Diploma In Machine Learning and Artificial Intelligence
International Institue of Information Technology Bangalore • 2021
Certified in ML algorithms, Natural Language Processing, Deep Learning, and Reinforcement Learning

PUBLICATIONS

Vision-Based Fatigue Detection in Drivers Using Multi-Facial Feature Fusion
2023 15th International Conference on Developments in eSystems Engineering (DeSE), Baghdad Iraq