Nusrath Syed



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? Hyderabad, India

Work Experience

Senior Data Scientist (Anblicks)

Sep 2023 - Present

- Identified and addressed abnormal behavioural data through the implementation of advanced outlier detection techniques for 5000+ nodes to develop an efficient **Oil temperature prediction** model.
- Led a robust team in the creation of a machine learning models that accurately predict real-time oil temperature min-max ranges for the next 15 minutes, by incorporating external temperature and datetime features, enhancing operational efficiency.
- Ensured streaming updates by executing inference pipeline every 2 minutes, contributing to the reliability and responsiveness of the transformer network for real-time predictions.

Data Scientist (DBS Bank)

Dec 2019 - Sep 2023

- Led the development of a customer-centric **Hyper-Personalization Machine Arbitration Engine** that determines the next best customer interaction optimizing long-term customer value and expanding the customer base.
- Designed 3 predictive models (Acquisition, Usage, Retention) to assist marketers in identifying potential buyers.
- Implemented 200+ models that targeted individuals likely to make their first purchase or re-engage with products, covering various direct-to-consumer campaign channels, including direct mail, push notification and social media.
- Automated text and image tagging processes using AI, streamlining content creation and organization with Content Models.
- Derived actionable insights on the most effective communication channels through channel and time recommendation models.
- Led customer segmentation, micro-segmentation, RFM analysis, enabling precise targeting & tailored marketing strategies.
- Custom-built a Multilingual Chatbot NER system to extract entities from text messages in English, Hindi, Telugu, Tamil, and their code-mixed forms, filling a gap in conversational AI for 3 Indian languages.

Data Science Consultant (Ernst & Young LLP)

Feb 2017 - Nov 2019

- Developed an end-to-end OCR pipeline and Contract Entity Extraction for legal documents, addressing challenges like skewed, inverted, and low-resolution documents, leveraging ML techniques, ensuring accurate and efficient extraction.
- Played a key role in Technology Assisted Review processes to facilitate document analysis and categorization.
- Collaborated on **Information Governance** projects that integrated **OCR** with **ROT analysis** (Redundant, Obsolete, and Trivial) for effective document management and data retention strategies.
- Led the Fraud Analytics project, contributing to the development and deployment of models for fraud detection and prevention.
- Conducted **text analytics** on **motor vehicle customer review** data, extracting actionable insights to enhance product development and customer satisfaction.
- Applied NLP methods to perform Entity Analysis on emails and voice transcripts, improving data organization and accessibility.
- Implemented OCR for invoice extraction and document classification, streamlining document management and invoice processing.

Education and Training

Master of Technology (Data Science & Engineering)

Birla Institute of Technology & Science - Pilani Hyderabad

May 2021 - Mar 2023

Bachelor of Technology (ME) - Distinction

Nimra Institute of Science & Technology

Jun 2012 - May 2016

Skills

Core Skills: Predictive Machine Learning, Exploratory Data Analysis, Natural Language Processing, Data Visualization

Programming Languages: Python, SQL, Java, JavaScript, Apache Spark

Libraries & Frameworks: NumPy, Pandas, Scikit-Learn, Flask, Streamlit, PySpark, PySpark-ML, OpenCV, PyTorch, TensorFlow with Keras, XAI models, Boosting algorithms, HyperOpt

Natural Language Processing: Text pre-processing, Word Embeddings, NLTK, SpaCy, Sentiment Analysis, Topic Modeling, Custom Named Entity Recognition (NER), RNNs, Transformers, BERT, OpenAI, GPT Models

Computer Vision: OCR, Object Detection, Semantic Segmentation, Image Classification, MASK R-CNN, FASTER R-CNN, CNNs, Autoencoders, Variational Autoencoders, GANs, AWS Rekognition

Databases: Microsoft SQL Server, Elasticsearch, MySQL, MongoDB, Apache Hive, HBase

Cloud Services: Amazon Web Services (AWS) - S3, Lambda, EC2, Azure-ADF, Databricks

Other Skills: Rest API, Regular Expressions, HTML, CSS, Logstash, Kafka, Git, Collibra, Superset, MLFlow, Jenkins (CI/CD)

Certifications and Accomplishments

- Python programmer Data camp
- EY Analytics Data science
- Deep Learning with PyTorch Jovian

- Won 1st Price for Hack to Help Hackathon
- Runner up for Gamification Digi App Hackathon

Languages

English Hindi Telugu Urdu