

SWARAJ SHAW

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Work Permit – Stamp 1G Holder (40 hours)

TECHNICAL WORK EXPERIENCE

AspireNXT Pvt. Ltd

Business Intelligence Engineer

Bangalore, IN
Jan 2020 - Jan 2022

- Involved in driving global team and handling cross-site collaboration with client management strategies.
- Identify issues and provide end-to-end customer resolution by improving service performance and reliability.
- Apply quantitative and qualitative approach for APAC region to analyze customer success.
- Expertise in handling requirement gathering, proposals, PoCs, project launches till customer signoff process.
- Managed a team of 3 in R&D wing and mentored 2 interns based on feedbacks and best practices on a technical paper.
- Cleansing, Data Wrangling, Manipulating & Design creative Visualization on BI Reporting tools.
- Involve and execute multiple projects in the pipeline, effectively work with data warehouse team on ETL tasks.
- Analytical and problem-solving approach in delivering solutions to client/businesses.

ZeoMinds IT Solutions

Research Data Science

Hyderabad, IN
May - November 2019

- Research on machine learning and statistical modelling to identify potential trends in credit score.
- Feature extraction and data modelling in building Automatic Speech Recognition system.

PROJECT & RESEARCH EXPERIENCE

AspireNXT Pvt. Ltd.

ML Product Recommendation

Bangalore, IN
Jan 2020 - Jan 2022

- Built a product recommendation engine using MLOps pipelines for scheduled model training jobs and inference recommendation.
- Configured product recommendation for user personalization and email marketing campaigns using AWS Personalize.

Visual Product Recommendation

- Built large scale visual shopping recommendation system using object detection, visual embedding and serving infrastructure for real time inference with a capability of multi-channel data collection and campaign orchestration.

Document Extractor and Digitization

- Built a comprehensive ML based PaaS solution to extract highlighted keywords using Amazon Textract from BoL/Invoices and post-process the output to store in customer database. Increase overall efficiency and reduced labor costs upto 60%.

Regulator Finance MIS Dashboard

- Optimized a company's internal finances by creating a Tableau dashboard to track daily, monthly and yearly financial reporting comprising of multiple KPIs, calculated fields, forecasting and MoM and FYTD comparisons across multiple levels.
- Increased visibility upto 80% on total expenses, revised profit from operating activities and non-operating incomes. Saved costs on tax benefits and net profit after taxation.

BI Reporting

- Built dashboard leveraging anomaly detection & forecasting on energy consumption for cost reduction up to 15%.
- Enterprise-grade dashboard for surveys conducted by onboarding cloud workforce boosting an increased employee efficiency by 50%
- Implemented an Executive level Spend Profiling dashboard for the top management of a manufacturing giant. Transitioned existing data from SAP modules to data lake formation for data classification using Amazon Comprehend and provide analytical insights on potential vendor consolidation.

Zoho Dashboard

- Fully Automated API extraction from ZohoCRM, into RDS server, data visualization on Amazon QuickSight.
- Collaborated with data engineering team to streamline and track companies' internal sales performances and track ageing leads.

Research & POCs

- Forecasted number of user bill counts using Amazon Forecast DeepAR+ algorithm on Sagemaker having lowest RMSE.
- Facilitated end to end text data collection using Amazon Textract for operations on FMCG products and documents.
- *Built* a multipurpose NLU powered service-based chatbot on Amazon Lex and deployed on Slack and Facebook Messenger.

Google Cloud Platform

- Audio analytics – PaaS based audio transcription, translation and sentiment analysis tool using Google Cloud API.
- NLU based Dialogflow chatbot for interacting customer survey responses and integration on multi-platform.

Computer Vision Projects

- Generating DeepFake videos by animating objects in still images using GANs and identifying DeepFakes using frame-by-frame video processing solution with Amazon DL-AMIs.
- Co-VID Solutions: Social Distancing & Face Mask Detection using Amazon Rekognition & Sagemaker

EDUCATION

Dublin Business School

Master of Science in Artificial Intelligence

Thesis - Enabling Continuous Improvement & Monitoring in ML Workflows through Data Logging & Monitoring

Insurance Claim Detection – Training Accuracy 89.69%; Validation Accuracy – 83.86%

Class Representative

Dublin, Ireland

Jan 2022 – Jan 2023

Udacity Nanodegree Program

Natural Language Processing, Artificial Intelligence

Microsoft Azure Machine Learning Scholarship

AWS Machine Learning Scholarship

Udacity

April 2020

Coursera Project and Specialization

Advanced Machine Learning on Google Cloud Specialization

Image Classification with Amazon Sagemaker

Google Cloud - Architecting with Google Compute Engine Specialization

Coursera

Nov 2021

Amity University

Bachelor of Technology in Computer Science

Facial Keypoint Detection

Kolkata, WB

Sept 2015 – Oct 2019

ACHIEVEMENTS

Achievements

- Felicitated with Best Solution Award for ASCI Pursuit Team at AspireNXT Pvt Ltd – 2021'
- Felicitated with Silver Award for contribution in Data Science at AspireNXT Pvt Ltd – 2021'
- Felicitated with Luminary Award for Data Science Lead at AspireNXT Pvt Ltd – 2020'
- Felicitated with Spot Award for noteworthy contribution at ZeoMinds Pvt. Ltd. – 2019'

SKILLS & INTERESTS

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- **Programming & Technologies** - Python (NumPy, Pandas, Scikit-Learn, PySpark ML, Unit Testing, Web Scraping, API fetching, Flask, Keras, TensorFlow, PyTorch Lightning, MLFlow, Docker, Kubernetes,), Amazon SageMaker, Google Cloud ML, Azure ML Studio, CI/CD, SQL
 - **BI Tools** - Tableau, Microsoft Power BI, Amazon QuickSight, Qlik.
 - **Graph DBMS** - Neo4J, Bloom
 - **Tools** - MS Office 365 Suite, MS Excel, MS PowerPoint, Jira, Bitbucket.
 - **Language** - Fluent in English, Hindi (Native), Bengali (Native) and German (Basic)