

# 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

Dublin, Ireland

#### Master of Science in Artificial Intelligence

Jan 2022 – Jan 2023

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

### Udacity Nanodegree Program

Udacity

Natural Language Processing, Artificial Intelligence

April 2020

Microsoft Azure Machine Learning Scholarship

AWS Machine Learning Scholarship

### Coursera Project and Specialization

Coursera

Advanced Machine Learning on Google Cloud Specialization

Nov 2021

Image Classification with Amazon Sagemaker

Google Cloud - Architecting with Google Compute Engine Specialization

### Amity University

Kolkata, WB

Bachelor of Technology in Computer Science

Sept 2015 – Oct 2019

Facial Keypoint Detection

## ACHIEVEMENTS

### Achievements

- Felicitated with Best Solution Award for ASCI Persuit 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

- **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)