ARPITANSHU

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EDUCATION

Institute of Technology, Guru Ghasidas University

2014 - 2018

Bachelor of Technology - Information Technology

CGPA: 8.14

IIT, Kharagpur

Apr - Oct 2019

Certification in AI & ML - Continuing Education Programme

[certificate]

SKILLS

- Proficiency in innovations in NLP space like LoRA, Adapters, Quantization, Watermarking, Agents.
- o Ability to understand, experiment, tweak or implement recent Research Papers.
- Time-Series analytics Forecasting, Anomaly-Detection, Changepoints Trend Seasonality Detection.
- o Analytics on Temporal Multi-Dimensional Data Cube, Deep Metric Learning, Pytorch, FastAPI.

EXPERIENCE

Quantive

(1 yr) June '22 - May '23

ML - II Engineer

- Led a team of 3 ML Engineers, formulated solutions and designed experiments for team.
- Developed LLM-powered agents to create API endpoints and SQL queries for natural language queries, enabling a centralized q&a dashboard.
- Primary Contributor in building an automated online unsupervised Anomaly Detection & Forecasting
 engine for the company's Business Monitoring Platform for real-time streaming time-series data with the
 following key capabilities:
 - * Probabilistic Forecasting based on DeepAR & N-Beats.
 - * Handle time-series following multiple distributions s.a. Gaussian, Discrete & Negative Binomial.
 - * Developed a novel normalization strategy for online training of non-stationary time-series.
 - * Developed a relative anomaly scoring mechanism, to minimize anomaly alert storms.
 - * Seasonality, Trend & Changepoint Detection amongst other auxiliary features.

Cliff.ai (acquired by Quantive)

(2 yrs) May '20 - May '22

ML - I Engineer

- Developed multi-modal metric learning models for product matching using images, text & breadcrumbs.
- Developed a Knowlegde Graph of business metrics based on associated metadata, synchronicity of anomalies & seasonal patterns for serving multiple downstream tasks.
- Developed multiple solutions for Multi-Dimensional Temporal Data.
 - * Automatic EDA engine for surfacing insights from inspired by [Microsoft's MetaInsight]
 - * Contributed to RnD of Root Cause Analysis for surfacing explainable dimensions to explain change.
 - * Capability to generate explainable targetted forecasts to foresee dimensional distribution of KPIs.

Ribbon Communications

(1 yr 5 mo) Aug '18 - Dec '19

QA Engineer

- Contributed to testing focusing around high availability (HA) reliability, certificate management, cloud deployment, and stress testing of Session Border Controllers.
- o Developed and implemented automation tools to streamline manual tasks for the QA team.

PROJECTS

- o ts-tok A Time Series Tokenizer inspired by Symbolic Aggregate approXimation (SAX) for seamlessly training Transformers w/ time-series data.
- o diffusion-typeface Minimal implementation of Denoising Diffusion w/ CFG from scratch & trained on English typefaces dataset.
- o ssd-object-detection Implementation of SSD: Single Shot MultiBox Detector & trained to detect products from Shelf Images of Grocery Dataset.

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CERTIFICATIONS

Introduction To Machine Learning NPTEL-nptel17cs26S1620004Neural Networks & Deep Learning Coursera -Improving DNNs Coursera -Intro to TensorFlow Coursera -