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EXPERIENCE

Embibe

Data Scientist (Search and Discovery Team)

- Implemented Query Understanding & Relevance Ranking module to detect user's intent, identify knowledge graph entities & rank results based on relevancy, popularity and freshness.
- Re-architecture of Embibe Ask Search Service with added support for Faceted search, Image Search, Question Recommendation and Auto-suggest.
- Designed Search Evaluation Framework to monitor & track search evaluation metrics .
- Wrote Airflow pipelines for consumption from Data Platform to Serving layer.

Arva.ai

Research Scientist (Insurances Team)

- Implemented real-time & batch ETL pipelines; orchestrated and scaled using Apache Airflow & REST APIs.
- Develop multiple machine learning models for use cases such as health claims automation, life insurance underwriting.

Indian Institute of Technology

Project Associate - Computer Vision Lab

- Responsible for research and prototyping conditional inpainting under Prof. Dr. Anurag Mittal.
- Developed & trained models using PyTorch; leveraged TensorBoard to keep track and evaluate experiments

SKILLS

- Languages: Python, C++, Java
- ML Framework: TensorFlow, PyTorch, Keras, Scikit-Learn
- Libraries: Numpy, Pandas, Spark, Jupyter, OpenCV, PIL

Technologies: AWS, GitHub, S3, Docker Databases: MySQL, MongoDB, Redis, ElasticSearch Framework: ElasticSearch, Kafka, Fastapi

PROJECTS

Query Understanding and Relevance Ranking

Built end-to-end production system including query understanding and ranking to power search. Wrote the Query Understanding module consisting of query rewrite, intent detection, & academic entity tagger. Analyzed search ranking and relevance requirements, issues .

Embibe Ask Search

Built an end-to-end search service for Embibe Ask(A platform similar to Quora). The search service supports for faceted search, image search, question recommendation, auto-suggest for question and topic. Wrote airflow pipelines to consume Kafka events from Data lake , process & format them and ingest to the Serving Layer(Elasticsearch)

Signature Verification

Developed model for efficient signature embedding for signature similarity using triplet loss. Approach based on FaceNet: A Unified Embedding for Face Recognition and Clustering.

Life Insurance & Health Claim Automation

Collaborate to create an ecosystem of machine learning solution for life insurance and health claim. Developed model to adjudicate policy proposals & health claims with 94% accuracy. Designed model to predict multiple reasons for health claim denial

EDUCATION

Walchand College of Engineering

Bachelor of Technology in Computer Science

ADDITIONAL EXPERIENCE & ACHIEVEMENTS

- Invited Speaker, as part of workshop conducted under AI Summit, IIT Bombay
- Invited to talk about "Applicability of Deep Learning in Finance" at CodeUp Mumbai organised by PayU
- Awarded Badass of the Week by Siraj Raval on channel "Sirajology" for winning stock market prediction challenge using twitter api
- Served as Vice President for College Club, PACE

Sangli, India GPA: 8.21/10.0

Mumbai, India May 2017- July 2019

Bangalore, India

August 2019- Present

Madras, India

Feb 2018 - Aug 2018