Shashank S

Data | Product | Design

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PROFESSIONAL EXPERIENCE

Glance, InMobi

Machine Learning Engineer 3   2022.07 – present

- Design and develop a hierarchical recommendation system 🔗 , modelling for the proportion of modalities based on user affinity as the first layer; build on ideas from Multi Armed Bandits(v1), Elo Ratings(v2)
- Develop a clustering based Look-alike model for sparse users, increasing engagement by 5%; moving users to "dense" faster
- Explore diverse ML models, including User-level Logistic Regression, Reinforcement Learning with MABs, Probability State Machines, Popularity, and Linear models
- Direct a high-impact team, delivering recommendations to 100M+ DAUs 🔗 under 500ms latency, across two prominent OEMs.
- Lead Automation Platform for ML systems, implementing production-grade practices 🔗 , Metrics (Neptune) setup, system re-architecture, Model Controller (profiling, optimization), pipeline optimizations, and dashboarding (Superset, Tableau).
- Other projects: Event-driven Personalization using PySpark Structured Streaming, CGen, and Events Framework across various versions.

Data Scientist 2   2021.05 – 2022.06

- Full Stack Data Scientist involved in: design systems, data engineering, model building, deployments, monitoring and experimentation.
- Build a graph based consumer-creator recommendation system, serving a million daily active users
- Design and deploy a GBM based image recommendation system for a cohort of 10Mn DAU, operating under 50ms latency
- Automated quiz generation over live video stream in real-time; PoC on YouTube Live Streams

Bright Money 🔗

Data Scientist   2021.01 – 2021.04

- Design and productionize the flagship Debt Manager - an end-to-end AI system that analyzes the finances of an agent, collects the money required in a distributed fashion when affordable, pays the minimum dues of the credit cards; all the while maintaining the state of all cards and payments.
- Build the system on AirFlow and Django to serve 10's of thousands of users

Junior Research Scientist   2019.06 – 2020.12

- Founding Data Scientist, involved in all things Data Science
- Various zero-to-one products like Bills identification, affordability prediction, overdraft prediction, liability inferences
- EDA, time-series analysis, various predictive models (income, expense, balance, affordability, overdraft), segment analysis, user behaviour tailoring
- Work with product to optimize for metrics like retention, activation, monetization

PUBLICATIONS

Automated Debt Management - Patent,   2021.02
Intelligent Automation System for managing Consumer Debt
  (US) 8135US001

Deep Learning Segmentation and Quantification of Meibomian   2019.12
Glands, *Biomedical Signal Processing and Control* 🔗

EDUCATION

Bachelors, Computer Science and Engineering,   2014 − 2018
Sir M. Visvesvaraya Institute of Technology
- 79.5% | First Class with Distinction
- Electives*:* Pattern Recognition; Artificial Intelligence; Clouds, Grids and Clusters
- Thesis: Image Regeneration with Generative Models 🔗

PROJECTS

Dark Money, *the personal finance dashboard you need* 🔗   2023.12

Color Mood, *find your favourite color of your current mood* 🔗   2023.08

diffAKI, *pictionary, with Stable Diffusion* 🔗   2022.09

Wazir, *the general purpose image and text combinator* 🔗   2023.02

Ghost Game, *multiplayer game where you don't complete the word.* 🔗 2021.07

Image Regeneration w/ Generative Models, *semantic Inpainting* 🔗   2018.05

Pretty Pixel, *manipulate a 3D playing field of stars* 🔗   2017.07

Souffleur, *smart speech prompter while on stage* 🔗   2016.01

CERTIFICATES

- Neural Networks and Deep Learning 🔗
- ML Stanford University, Coursera 🔗
- Android Developer Nanodegree, Google, Udacity 🔗

EXTRACURRICULARS

Volunteering
- *Section Leader in Code in Place* 🔗 , Stanford University

Honours
- *ACM ICPC 2015* 🔗 , Honorable Mention
- *Letter of commendation by Minister of HRD* 🔗 , Kendriya Vidyalaya, AISSCE (12th Board)