

Shashank S

Data Science | Product Design

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PROFESSIONAL EXPERIENCE

Data Scientist 3, Glance, InMobi

2021.05 – present

Lead the Mi-IN pod, responsible for the personalization system serving 60 million daily active users

- Develop a clustering based Look Alike model for the cold and sparse users, increasing engagement by 5 percentage points; moving users to “dense” faster
- Explore different styles of models - User level Logistic Regression, Reinforcement Learning with Multi-Armed Bandits iterations
- Lead the Automation Platform charter, advocate and implement production grade practices for ML Systems - monitoring, logging, performance testing, software engineering best practices

Data Scientist 2

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

Data Scientist, Bright Money

2019.06 – 2021.04

Founding Data Scientist, involved in all things Data Science

- 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

- 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


Data Engineer Intern, Fyle

2019.05 – 2019.06

- Automate processing of relevant fields from digital invoices
- Identify and extract merchant names from bills

Deep Learning Intern,

2017.08 – 2017.12

Robert Bosch Engineering and Business Solutions Pvt. Ltd. 

- Use deep learning models for diabetic retinopathy, meibomian and glaucoma detection
- Test and train Inception-v3 and various other neural network architectures
- Improve segmentation through data augmentation using perturbation, publish results

PUBLICATIONS

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|---|---------|
| Automated Debt Management - Patent, <i>Intelligent Automation System for managing Consumer Debt</i> (US) 8135US001 | 2021.02 |
| Deep Learning Segmentation and Quantification of Meibomian Glands, <i>Biomedical Signal Processing and Control</i> ↗ | 2019.12 |

SKILLS

Machine Learning, Deep Learning, NLP, Recommender Systems

Spark, Pandas, Scikit-learn, AWS, Azure, GCP, Django, Airflow, Metabase, Prometheus, Grafana, Kubernetes, Argo

Go, C, C++, Python, PySpark, Shell, HTML, CSS, JavaScript, SQL, OpenGL, PostgreSQL

Algorithms, Data structures, Linux, Android, Octave, Java, Jekyll, Git, InkScape, GIMP, LaTeX

EDUCATION

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|---|-------------|
| Bachelors, Computer Science and Engineering, <i>Sir M. Visvesvaraya Institute of Technology VTU 79.5% First Class with Distinction</i> | 2014 – 2018 |
| Electives: Pattern Recognition; Artificial Intelligence; Clouds, Grids and Clusters Thesis ↗ | |

PROJECTS

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| diffAKI, <i>A toy pictictionary game, with Stable Diffusion providing the artistic flair</i> ↗ | 2022.09 |
| Ghost Game, <i>A multiplayer game where the goal is to not complete the word.</i> ↗ | 2021.07 |
| Image Regeneration with Generative Models, <i>CapsNet, with Semantic Inpainting</i> ↗ | 2018.05 |
| Pretty Pixel, <i>A game involving manipulation of a three-dimensional playing field</i> ↗ | 2017.07 |
| Souffleur, <i>A smart speech prompter which suggests forgotten lines of speech while on stage</i> ↗ | 2016.01 |

EXTRACURRICULARS

Volunteering

- *Section Leader in Code in Place* [↗](#) , Stanford University

Certification

- *Neural Networks and Deep Learning* [↗](#) , deeplearning.ai on Coursera
- *Machine Learning* [↗](#) , Stanford University on Coursera
- *Android Developer Nanodegree* [↗](#) , Google on Udacity

Honours

- *ACM ICPC 2015* [↗](#) , Honorable Mention
- *Letter of commendation by Minister of HRD* [↗](#) , Kendriya Vidyalaya, AISSCE (12th Board)