

# Shashank S Data Science | Product Design

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## PROFESSIONAL EXPERIENCE

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### 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 interaction rate 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

PySpark, Pandas, Azure, CosmosDB, GCP, VertexAI, BERT, AWS, Docker, Argo, Kubernetes

### 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

Django, Python, AWS, Pandas, Numpy, AirFlow, Docker, PostgreSQL, Metabase, Prometheus, Grafana

### Data Engineer Intern, Fyle [↗](#)

2019.05 – 2019.06

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

Python, OpenCV, Scikit-Learn, AWS

### Deep Learning Intern, Robert Bosch Engineering and Business Solutions Pvt. Ltd. [↗](#)

2017.08 – 2017.12

- 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

Python, OpenCV, Pillow, AWS, Django; Theano, Keras, TensorFlow

## PUBLICATIONS

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### Automated Debt Management - Patent,

2021.02

*Intelligent Automation System for managing Consumer Debt*

(US) 8135US001

### Deep Learning Segmentation and Quantification of Meibomian Glands,

2019.12

*Biomedical Signal Processing and Control* [↗](#)

## SKILLS

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Machine Learning, Deep Learning, NLP, Recommender Systems

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

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,

2014 – 2018

*Sir M. Visvesvaraya Institute of Technology | VTU | 79.5% | First Class with Distinction*

Electives: Pattern Recognition; Artificial Intelligence; Clouds, Grids and Clusters | Thesis [↗](#)

## PROJECTS

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**diffAKI**, *A toy pictionary game, with Stable Diffusion providing the artistic flair* [↗](#)

2022.09

**Ghost Game**, *A multiplayer game where the goal is to not complete the word.* [↗](#)

2021.07

**Image Regeneration with Generative Models**, *CapsNet, with Semantic Inpainting* [↗](#)

2018.05

**Pretty Pixel**, *A game involving manipulation of a three-dimensional playing field* [↗](#)

2017.07

**Souffleur**, *A smart speech prompter which suggests forgotten lines of speech while on stage* [↗](#)

2016.01

## EXTRACURRICULARS

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### 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)