Shashank S

Data Scientist · Yak Shaving Expert

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Experience

Glance, InMobi
MAY 2021 – PRESENT

Data Scientist 2

- 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
- Spark, Pandas, Azure, CosmosDB, GCP, VertexAI, BERT

Bright Money Inc.
JUN 2019 – APR 2021

Early Data Scientist

- Build Debt Manager - Bright's flagship offering. An AI system to analyze the finances of a user and take intelligent actions. Patent-pending.
- Build the system on Airflow and Django to serve 20k+ users daily. As of 2020 driving 100% of the revenue
- Multiple 0-to-1 products like Bills Identification, Affordability Prediction, Overdraft Prediction, Liability Inferences
- Time-series analysis, predictive models (income, expense, balance, affordability, overdraft), segment analysis, user behaviour tailoring
- Work on product features to optimize for metrics (retention, activation, monetization)
- Django, Airflow, Python, AWS, Pandas, Prophet, SARIMA, PostGreSQL, Metabase, Prometheus, Grafana

Fyle
MAY 2019 – JUN 2019

Data Engineer Intern

- Automate processing of relevant fields from digital invoices
- Identify and extract merchant names from bills
- Python, OpenCV, Scikit-Learn, AWS

Robert Bosch Engineering and Business Solutions Private Limited
AUG 2017 – DEC 2017

Deep Learning Intern

- 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

Dept. of Computer Science and Automation, Indian Institute of Science
JUL 2017

Summer student

- Among 80 students across India to attend the 5th Undergraduate Summer School
- Courses on Cryptography, Machine Learning, Graph Theory, Computational Neuroscience, Game Theory

SuperText
SEPT 2015 – DEC 2015

Android Developer Intern

- Develop an android application for delivery personnel; implement push notifications and location services
- Android SDK, Google Maps API, OneSignal(Push notification), smooch.io(Chat)

Publications

Deep Learning Segmentation and Quantification of Meibomian Glands	Dec. 2019
Biomedical Signal Processing and Control	(ScienceDirect)
Automated Debt Management - Patent	Feb. 2021
Intelligent Automation System for managing Consumer Debt	(US) 8135US001

Skills

Machine Learning, Deep Learning, NLP, Recommender Systems, Algorithms, Data structures, Linux, Android
Spark, Pandas, PostGreSQL, Scikit-learn, AWS, Azure, GCP, Django, Airflow, Metabase, Prometheus, Grafana
C, C++, Python, Shell, HTML, CSS, JavaScript, SQL, OpenGL, TensorFlow
Octave, Java, Jekyll, Git, InkScape, GIMP, LaTeX

Education

Bachelors, Computer Science and Engineering   2014 − 2018

Sir M. Visvesvaraya Institute of Technology | VTU | 79.5%   Thesis

Electives: "Pattern Recognition", "Artificial Intelligence", "Clouds, Grids and Clusters"

Projects   (GitHub)

Image Regeneration An approach to a modified GAN with a CapsNet discriminator, demonstrated using Semantic Inpainting
Python, TensorFlow, Keras, Colaboratory

Pretty Pixel A computer graphics game involving manipulation of a three-dimensional playing field
C++, OpenGL, Linux

Souffleur A smart speech prompter which suggests forgotten lines of speech while on stage
Android, SQLite, Text-to-Speech

AuReader An immersive book reader which plays contextual music based on the dominant emotion of the page
Android, SyneSketch, ePub

Extracurriculars

Volunteering

2021 **Section Leader in Code in Place,** Stanford University   Certificate

Certification

2019 **Neural Networks and Deep Learning,** deeplearning.ai on Coursera   Certificate
2017 **Machine Learning,** Stanford University on Coursera   Certificate
2017 **Android Developer Nanodegree,** Google on Udacity   Certificate

Honors

2017 **First place in final year project exhibition,** "Image Regeneration with Generative Models"   Certificate
2016 **Scholarship from TATA Trusts and Google India,** Nanodegree at Udacity
2015 **ACM ICPC,** Honorable Mention   Certificate
2014 **Letter of commendation by Minister of HRD, Kendriya Vidyalaya,** AISSCE (12th Board)   Certificate