

PRAKHAR AGRAWAL

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prakhar0409

EXPERIENCE

Analyst

Goldman Sachs Services Pvt Ltd

June 2018 – Ongoing

Bengaluru, IN

- Building tools to increase operational efficiency, reduce risks & cut costs
 - Developed parts of 3-plane model enabling functional/app/infra monitoring
 - Working on large-scale distributed systems to facilitate ML at scale
- Received a **full time job offer** after my internship during summer 2017

Research Assistant

Aalto University (A!)

May 2016 – July 2016

Espoo, FI

- Estimated partial atomic charges on atoms using Graph Neural Network
- Parallelized training phase using MPI and genetic algorithm in C++

PROJECT WORK

Refining Index Storage in Graph DBs

Prof. Srikanta Bedathur

- Introduced capabilities to store indexes as a layer in graph
- Designed performance benchmarks to highlight effect of these methods

Neural Question Generation

Prof. Mausam

[prakhar0409/question-generation](#)

- Question Generation using Seq2Seq BiLSTM Encoder-Decoder
- Extended with paragraph encoding capturing long range relations & context

Distributed Hash Table Simulator

Prof. Smruti Sarangi

[prakhar0409/Pastry-Simulator](#)

- Developed a DHT based system - Pastry (scales for > 1000 nodes)
- Robust support for **smooth node joining & leaving** from the network.

AI for the game of Tak

Prof. Mausam

[prakhar0409/Playing-Tak](#)

- Implemented a heuristic based Bot to play Tak using minimax search tree
- Training was done by tweaking weights of a copy & simulating their contest

HoH Labs

Prof. Sorav Bansal

- Implemented parts of **exo-kernel 'HoH'** conceptualized at IIT Delhi
- Added support for **fibers, coroutines** and **multiple cores** (2 cores)

Received a **letter of appreciation** for an excellent performance in the course

ACHIEVEMENTS

Hackathons & Competitions

- AI for Ed. Global HackWeek 2017:** Winners of grand prize of \$6000; **ReadEx** is a personalized, assistive smart document reader; helps user gauge their understanding of the topic [MayankR/OpenEdAI-Hackathon](#)
- Adloid AR Hackathon, '16:** Stood first for solving various challenge in AR
- Data Analytics Hackathon IIT Delhi, 2016:** Winners for most accurately predicting **Effect of Climate change on GDP** of a country
- Runner up at Coding Blocks, RDV Hackathon.** Developed **BrainWhack**, a **directed learning app** that uses LSI to tag & suggest pre-requisites topics
- Tryst Algorithms, 2016:** Second Runner up at an algorithmic contest, IITD
- State Level Basketball, Buldhana '08:** Part of team from the Latur district.

EDUCATION

B.Tech in Computer Science

IIT Delhi

June 2014 – May 2018

New Delhi

GPA: 9.255 / 10

with a specialization in **Data Analytics**

Junior College

Narayana Junior College

June 2012 – May 2014

Hyderabad

Percentage: 97.8%

SCHOLASTIC

- All India Rank **64** in **JEE Advanced, '14**
- Received **KVPY Fellowship Award, '14**
- Awarded **IITD Semester Merit (x 3)**
- Topped with **GPA 10.0** in semester 1

RELEVANT COURSE WORK

Advanced Distributed Computing
Natural Language Processing
Machine Learning, Computer Vision
High Speed Networks (Blockchains)
Artificial Intelligence
Database Management Systems
Operating Systems, Parallel Programming

PERSONAL INITIATIVES

A-paper-a-week

read and summarize a paper every week

[papers-I-read](#)

Teaching Assistant

[Data-Structures-TAship](#)

- served as a TA to Data Structures course- one of the most sought after courses
- Co-designed 3/4 assignments and conducted doubt sessions for students

SKILLS

- Python, C++, Java, SML
- Spark, Pytorch, Cassandra, Gremlin
- Blockchains:** basic solidity & ethereum

POSITIONS OF RESPONSIBILITY

System Administrator: Managed fleet of servers & many services: DNS, DHCP, VPN etc

BSP & ACES-ACM, IIT Delhi: spearheaded team of enthusiasts as technical lead, to promote a healthy & geeky environment in IITD fraternity