Yudhik Agrawal

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EDUCATION

IIIT HYDERABAD, INDIA

B.Tech & MS (By Research) in COMPUTER SCIENCE & ENGINEERING

MAY 2021

Cum. GPA: 8.95 / 10 M.S GPA: 9.75 / 10 Dean's List awardee

TECHNICAL SKILLS

LANGUAGES & SKILLS

- C/C++(STL) Python JAVA
- Data Structures and Algorithms

W_{FB}

- HTML CSS JavaScript
- Flask MySQL

Tools & Framework

- PyTorch Tensorflow OpenCV
- Kafka Flink AWS GIT

OTHERS

• Bash • Kubernetes • REST

MINOR PROJECTS

DEEP 3D-HM GUI

PyTorch, 3D Reconstruction

Developed a Tk GUI toolkit which finds 3D mesh of a human body from a monocular RGB Image/Video using state-of-the-art Deep Learning network.

STACK OVERFLOW USERQUERY TENSORFLOW, NLP, DJANGO

Developed a search bar using StackOverflow API providing more relevant results by applying various NLP techniques like text-similarity(USE), statistical analysis and semantic analysis.

LINUX MINI SHELL

C, OPERATING SYSTEMS

Developed a fully-functional shell Bash like terminal using Linux system calls which includes user-defined commands,

ACTIVITIES

PROGRAMMING CLUB COORDINATOR

Responsible for hosting contests and giving seminars from basic to very advanced topics.

RESEARCH ASSISTANT

- Cognitive Science Lab. IIIT-H
- Center for Visual IT, IIIT-H

TEACHING ASSISTANT

- Computer Programming
- Optimization Methods Graphics
- Digital Signal Analytics & Appl.

EXPERIENCE

GOLDMAN SACHS | ASSOCIATE

July 2021 - Present

PRODUCT DATA STREAMING: Platform responsible for delivering high quality data services to enable and power the firm

- Conceptualised and implemented Al framework to solve a general entity resolution problem which proposes static rules on evolving dynamic data for the reconciliation of financial products, reducing manual efforts by 80%
- Designed firmwide financial instruments' data model by collaborating with global business partners and technologists across several domains
- Enhanced ETL flow for financial data by replacing legacy codebase with scalable architecture thus increasing performance by 50%
- Successfully transformed legacy reconciliation processes by developing a robust Python framework integrated with a K8s cluster and memSQL database, resulting in enhanced code organization and streamlined job execution, thereby completely eliminating the need for manual interventions
- Mentored new hires by ramping them up with functional understanding of derivative products and backend codebase

ALLOY STREAMING: Self-Service hosted ETL platform to let users configure and monitor their data pipelines

- Enabled new business by implementing relational sink (MSSQL) for ETL flow
- Developed ETL platform's validation by allocating resources per user to ensure consistent availability by decreasing downtime significantly
- **Set up Kafka servers** to perform acceptance testing for the clients' pipelines

GOLDMAN SACHS | SUMMER ANALYST

May 2020 - July 2020

- Enhanced Data Ingestion process in Data Pipeline Framework by adding Rest API & S3 as a source and AVRO reader
- Researched and documented inferences for future scope of core project

PUBLICATIONS

- [1] Yudhik Agrawal, Emily Carlson, Petri Toiviainen, Vinoo Alluri; Decoding Individual differences and musical preference via music-induced movement; Nature Scientific Reports (SciRep), 2022.
- [2] Yudhik Agrawal, Ramaguru Guru Ravi Shanker, Vinoo Alluri; Transformer-based approach towards music emotion recognition from lyrics; ECIR, 2021.
- [3] Neeraj Battan*, **Yudhik Agrawal***, Veeravalli Saisooryarao, Aman Goel, Avinash Sharma; GlocalNet: Class-aware Long-term Human Motion Synthesis; WACV, 2021.

RESEARCH

- Research list awardee for excellence in research and publishing papers.
- Selected among top 50 students in India for Google Al Summer School, 2020.
- Receiver of Fellowship from Huawei Scholarship of Excellence 2020-21.

Sports Programming

- Google Kickstart: Secured 159th rank in 2019 round-F.
- ACM-ICPC 2019: Secured 35th rank in 2019 online round (Team Brahmasmi).
- Codeforces: yudhik [Best: 1946]

Codechef: yudhik [Best: 2147]

HACKATHONS

- Amdocs'19: Winner of Amdocs HackFest out of 5000 teams.
- Alexa'18: Secured 3^{rd} rank in the Techgig CodeGladiator out of 3000 teams.