

Yudhik Agrawal

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EDUCATION

IIIT HYDERABAD, INDIA

B.TECH & MS IN COMPUTER SCIENCE

JULY 2016 - MAY 2021

GPA : 8.95 , M.S GPA : 9.75

SKILLS

PROGRAMMING

- JAVA • Python • C/C++(STL)
- Javascript • Data Structures

MACHINE LEARNING TOOLS

- PyTorch • Tensorflow • Pandas

FRAMEWORKS

- Kafka • MySQL • AWS • GIT
- Kubernetes • Bash • REST

LICENSES

- Machine Learning Modeling Pipelines in Production
- Machine Learning Data Lifecycle in Production
- Data Analysis Using Pyspark
- Learn Embeddings and Vector Databases

MINOR PROJECTS

STACK OVERFLOW USER QUERY

| TENSORFLOW, NLP, DJANGO

Developed a search bar using StackOverflow API which provides more relevant results, making it 30% more engaging, by using techniques like text-similarity (USE), statistical analysis and semantic analysis

DEEP 3D-HM GUI

| PYTORCH, 3D RECONSTRUCTION

Designed 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

ADDITIONAL EXPERIENCE

RESEARCH ASSISTANT

Facilitated as Research Assistant for Cognitive Science Lab and Center for Visual IT, IIIT-H

TEACHING ASSISTANT

Instructed as Teaching Assistant for Computer Programming, Optimization Methods, Graphics and Digital Signal Analytics & Application

PROGRAMMING CLUB COORDINATOR

Coordinated and executed diverse contests and seminars ranging from fundamental to advanced topics

EXPERIENCE

GOLDMAN SACHS | ASSOCIATE

July 2021 – Present

PRODUCT DATA ENGINEERING : As an Associate, led a small team of 4, and delivered high quality data services that empowered the firm

- **Conceptualised and implemented AI framework** to address a general entity resolution challenge on evolving data, **reducing manual efforts by 95%**
- Achieved a remarkable **120x performance benchmark increase** by reinventing a record linking process, enhancing system scalability and availability
- Transformed legacy reconciliation processes into a **Python framework integrated with a K8s cluster**, enhancing code organization and streamlining job execution, thereby **eliminating the need for manual interventions**
- Enhanced financial data pipelines by **replacing legacy ETL processes** with scalable architecture, resulting in an **80% performance boost**
- Mentored new hires by providing support with functional understanding of derivative products and backend codebase

ALLOY STREAMING : Contributed as an Analyst on a self-service ETL platform, enabling users to independently configure and monitor data pipelines

- Implemented a relational sink (MSSQL) for ETL flow, **enabling new business opportunities** and enhancing data processing efficiency
- Devised resource allocation strategies resulting in a **substantial 75% decrease in downtime**, ensuring consistent availability and operational reliability
- **Configured Kafka servers** for acceptance testing of clients' pipelines, improving the efficiency and reliability of data processing workflows

GOLDMAN SACHS | SUMMER ANALYST

May 2020 – July 2020

- **Enhanced Data Ingestion process** in Data Pipeline Framework by adding Rest API & S3 as a source, along with providing support for AVRO files
- **Researched and documented** findings to achieve parallelisation, reducing processing time by 40%

PUBLICATIONS

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

ACHIEVEMENTS

AWARDS & HONORS

- Research list awardee & Dean's list awardee for excellence in research, academics and publishing papers
- Selected among top 50 students in India for Google AI Summer School
- Receiver of Fellowship from Huawei Scholarship of Excellence

COMPETITIVE 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

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