Yudhik Agrawal

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 | in

EDUCATION

IIIT HYDERABAD, INDIA
B.Tech & MS in Computer Science
May 2021
Cum. GPA : 8.95
M.S GPA : 9.75
Dean's List awardee

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

TEACHING ASSISTANT
• Computer Programming
• Optimization Methods • Graphics
• Digital Signal Analytics & Application

PROGRAMMING CLUB COORDINATOR
Responsible for hosting contests and seminars from basic to very advanced topics.

EXPERIENCE

GOLDMAN SACHS | ASSOCIATE
July 2021 – 2024 (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 ramping them up with functional understanding of derivative products and backend codebase

ALLOY STREAMING : Worked as an Analyst on a self-service hosted ETL platform which let users configure and monitor their 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

[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 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.**

AWARDS & HONORS

RESEARCH

- Research list awardee for excellence in research and publishing papers.
- Selected among top 50 students in India for Google AI 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

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