

YASHASVI KANCHUGANTLA

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EDUCATION

- **San Jose State University University** California, US
Master of Science, Data Analytics, GPA: 3.9/4 *Jan 2024 - Present*
Coursework: Distributed Systems, Machine Learning, Database Systems
- **Indian Institute of Technology, Kharagpur** IIT Kharagpur, India
BTech in Computer Science and Engineering *Jul 2015 - May 2019*
Micro Specialization in Intelligent Learning Systems Design; GPA: 8.03/10
Coursework: Deep Learning, Speech & Natural Language Processing, Artificial Intelligence, Information Retrieval, Database Management Systems, Image Processing, Operating Systems, Computer Networks, Probability and Statistics, Matrix Algebra

SKILLS SUMMARY

- **Languages:** C, C++, Ruby, Python, Java, Golang
- **Tools:** Kubernetes, Docker, Kafka
- **Frameworks & Others:** MySQL, PostgreSQL, MongoDB, Git, Unix, AngularJS

WORK EXPERIENCE

- **Motive Technology Inc, India - Backend Engineer** *Dec, 2021 - Nov, 2023*
 - Owned Alerting Modules for Tire Pressure detection and Fault codes from design to production deployment. — *Complete microservice implementation in **Golang**, maintenance, enhancements and **Kubernetes** deployment.*
 - Implemented pipeline Fault codes detection and vehicle maintenance from IoT events using Kafka messenger
 - Contributed to software for inspecting vehicles and their tracking. Implemented daily reports reviewing, Alerting modules through the SDLC — *Technical design and implementation, Optimization and Rollout captaincy.*
 - Brought down p95 API response times for the above services from existing **5min to 2.3sec** by spearheading **table partitioning** and by de-coupling PostgreSQL tables and using several **query optimization techniques** on codebase.
 - Optimized endpoints on the Vehicle inspection Reports interface for admins, using DB optimizations on tables- indices, partitioning, reducing in-memory utilization. P95 API response times have been reduced from 5min to <5sec
- **Visa Inc, Bangalore - Software Engineer** *July, 2019 - Feb, 2022*
 - A significant contributor to the global billing platform, which aims to supplant all existing regional billing platforms that are responsible for 33% of Visa's revenue.
 - Implemented multiple modules independently using the technologies: Java-Spring Boot, AngularJS, and MySQL.
- **Schlumberger India Pvt Ltd - Engineering Intern** *May, 2018 - July, 2018*
 - Overhauled part of business software to Microservices, as proof of concept, to migrate the whole architecture from Monolithic.
 - Technology used: Java, Spring Framework — Kubernetes deployment to demonstrate agility of cloud development.
 - The project led to ideation of converting several other data intensive legacy softwares to Microservices.

RESEARCH AND ACADEMIC PROJECTS

- **Off-Topic Detection And Linking In Massive Open Online Courses(MOOCs)** Jul, 2018 - Apr, 2019
Prof.Plaban Kumar Bhowmik *IIT Kharagpur*
 - Developed OffVid: A system for linking off-topic concepts to topically relevant video lecture segments in NPTEL lectures.
 - Identified the topics in video lectures using its transcripts and detected off-topics with Concept Similarity Networks(CSN).
- **Optimization of number of channels in cognitive load & motor imagery signals of EEG** July, 2018 - April, 2019
BTP Dissertation, Prof.Debasis Samanta *IIT Kharagpur*
 - Adopted a novel approach of integrating the statistical filtering method and then a wrapper approach, Prediction Shuffling.
 - Implemented all the state-of-the art approaches(Filter approach - MI,MDMR, Fisher and 2 others, Wrapper approach - Genetic Algorithms(2 variants),Recursive Feature Addition and Elimination) for analysis and comparison of my model.
 - Accuracy obtained is 83.21% with 0.4, while best performance 74.36%,is using GA-MLP and 0.61 of the total channels
- **Linguistic Analysis of Difference in Portrayal of Movie Characters** Jul. 2017 - Nov. 2017
Prof.Niloy Ganguly
 - Analysed differences in portrayal of movie characters with respect to the characters' age, gender, race and other metadata.
 - Psycholinguistic metrics were extrapolated to dialogues in movies using a linear regression model over some seed words.
 - Degree and betweenness centrality measures were applied over the character network graph for a movie.

PUBLICATIONS (SELECTED)

- **Nangi**, et al., "OffVid: A System for Linking Off-Topic Concepts to Topically Relevant Video Lecture Segments", ICALT-2019 [Paper]

AWARDS AND ACHIEVEMENTS

- Secured an All India Rank - 769 in JEE-ADVANCED 2015
- **Extra-Academic:** Instrutional Student Grader for Math Methods for Analytics - topics include PCA, Linear Regression