# 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, CUDA
- **Frameworks & Others**: MySQL, PostgreSQL, MongoDB, Git, Unix, AngularJS, OOPS

## 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 pipepline 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*
  - Among the 6 chosen individual contributors on a product to merge revenue billing platforms of 5 continents to a **Global revenue billing platform**(Global Operating Certificates) for **33% of Visa's revenue(22Bn$)**.
  - Designed an encoding of about 300,000 different types of cards worldwide to a standard metric classification to make billing hassle-free.
  - Implemented modules to identify variations and validations of all the **300k card metrics YoY, QoQ and MoM** entered by banks. Technologies: Java-Spring Boot, AngularJS, and MySQL
- **Schlumberger India Pvt Ltd - Engineeering 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)**
  *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**
  *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**
  *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]

## Licences and Certifications

- NVIDIA's Getting Started with Accelerated Computing in CUDA C/C++

## 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