

EDUCATION

Kennesaw State University <i>Master of Science in Computer Science (Current) CGPA: 3.7</i>	2022- 2023
Indian Institute of Technology Madras (IIT Madras), Chennai <i>B.Tech. in Mechanical Engineering and M.Tech. in Intelligent Manufacturing CGPA: 7.0</i>	2020
Sri Chaitanya Junior College, Raman Bhavan, Vijayawada <i>Class XII (Board of Intermediate Education Andhra Pradesh) Percentage: 96.2</i>	2015
Dr. KKR's Gowtham International School, Vijayawada <i>Class X (Andhra Pradesh Board of Secondary Education) CGPA: 9.5</i>	2012

RELEVANT COURSES

➤ Intro to Programming	➤ Data Structures and Algorithms	➤ Data Science	➤ Artificial Intelligence
➤ Probability and Statistics	➤ Machine Learning	➤ Data Warehousing & Mining	➤ Microprocessors in Automation
➤ Theory of Computation	➤ Database Systems	➤ Database Systems	➤ Cloud Computing
➤ Advanced Cryptography	➤ Parallel and Distributed Comp		

SKILLS

➤ Technologies: Spring boot, Kafka, AWS, Solace, OracleSQL Developer, Bitbucket, Maven, Jenkins, STS, IBM AppScan, React JS, Elastic, OCP, JasperSoft, Jira, Spark, RDBMS, HDFS, NoSQL, GIT	➤ Programming Languages: C, Python, R, Java, JavaScript
➤ M.L. Packages: scikit learn, pandas, tensorflow, keras, numpy	➤ Software: CREO, MATLAB, Azure ML, SAS, Hadoop, Databricks, Postman, Swagger, IBM SPSS
➤ Operating Systems: Windows, Linux, Ubuntu, Mac OS	➤ Data Visualization Tools & Libraries: Matplotlib, ggplot, Tableau

RELEVANT PROFESSIONAL EXPERIENCE

- **Developer - Technology & Innovation | Standard Chartered Bank GBS | Aug'20 - July'22**
 - As a **Techno Banker**, I contributed to developing **Banking Systems and Payment applications** using relevant full-stack.
 - Developed **Microservices** integrating **Java**, **Maven**, **Spring Boot**, and **JDBC**, seamlessly deployed for diverse regions, including the **Middle East, Africa, Asia, and Europe**, ensuring seamless deployment.
 - Utilized **Kafka** and **Solace** messaging, employing topics and queues, complemented by the creation of comprehensive end-to-end test cases using **JUnit** conducted unit tests facilitating the seamless integration and design documentation.
 - Analyzed microservice data flow posting JSON, utilizing **Elasticsearch** and **Kibana** for robust analysis, ensuring high performance and reliability.
 - Engaged in user story analysis, **functional requirements assessment**, and contributed to design, code, and reviews.
 - Employed SonarQube for continuous inspection of code quality, identifying and addressing vulnerabilities and code smells.
 - Played a pivotal role in ensuring comprehensive Application Installation documentation for **Release Acceptance activities**.
 - Acted as **Defect coordinator** with the concerned teams and fixed defects during **System/UAT** phase and production.
 - Developed scorecard models in SAS, automated scoring, and used macros/SQL for data management and analysis.
 - Mentored and facilitated the **successful integration** of new campus hires into the team, kickstarting their careers.
- **Graduate Researcher | Kennesaw State University | Aug'22 - Jan'24**
 - Collaborated with university professors as **GRA** to investigate student behavior across semesters. Leveraged SPSS for **statistical analysis** and employed advanced data imputation techniques.
 - Leveraged management skills to enhance academic insights by processing and visualizing data, data accuracy, and privacy.
 - Conducted data collection, preprocessing, and applied descriptive statistics using SPSS to extract insights from the data.
 - Actively engaged in the development of predictive models using various D.L and M.L algorithms in conjunction with SPSS.
 - Presented research paper at the SOTL Summit Conference, sharing key findings & insights with peers and experts in the field.
- **Machine Learning & Data Analyst Intern | Edarlabs Learning Pvt Ltd | June'19- July'19**
 - Preprocessed customer data, including cleaning and EDA, and built an **ML model** for product acceptance segmentation.
 - Prepared DataFrame from collected data and Used **K-means** clustering and **elbow method** to group customers,
 - Identified and ranked potential customers by product acceptance, created detailed PPTs, and pitched to investors for funding.

ACADEMIC & GITHUB PROJECTS

- **Customer Churn Prediction**
 - Built a model to **predict customer churn** and to help companies engage the customers likely to churn.
 - Used 3 hidden layer **neural networks**. Extracted important features and performed **AUC & ROC analysis** of the model built.
 - Used **confusion matrix** to interpret the output. **achieved 86.9% accuracy and 85% AUROC**.

<div><div>➤</div><div>Loan Data Prediction</div><div><div>●</div><div>Predicted defaulters in customers using the Logistic Regression model.</div></div><div><div>●</div><div>Used techniques such as univariate, bi-variate, and multivariate analysis and understood the relationship between the variables, missing value treatment, and imputation of missing values.</div></div><div><div>●</div><div>Used multicollinearity analysis to understand the highly correlating variables and confusion matrix to interpret the output.</div></div></div>
<div><div>➤</div><div>NBA analysis</div><div><div>●</div><div>Formatted 5 Data frames from raw data collected using rbind in R.</div></div><div><div>●</div><div>Created visual aid using matplotlib for FieldGoalAttempts, FieldGoals, Games,MinutesPlayed,Salary of NBA players over seasons.</div></div><div><div>●</div><div>Analyzed the performance of players over seasons, based on their ups and downs using data visualization tools.</div></div></div>
<div><div>➤</div><div>ZS Data Science Problem July'19</div><div><div>●</div><div>Built multiple models to predict successful goal attempts by Cristiano Ronaldo; Top 7% among all entries.</div></div><div><div>●</div><div>Performed pre-processing which involved cleaning of data, data imputation techniques for missing data.</div></div><div><div>●</div><div>Compared classification models with Logistic, ANN, Random Forests, & SVM techniques and AUC & ROC analysis of models.</div></div><div><div>●</div><div>Performed Regression analysis on extracted features and achieved a score of 0.828, score=1/(1+MAE).</div></div></div>
<div><div>➤</div><div>Age and Gender Estimation Jan'19-May'19</div><div><div>●</div><div>Applied transfer learning on a wide ResNet model on the IMDB-wiki dataset for age and gender estimation from a photo of the face of a person.</div></div><div><div>●</div><div>Pre-trained WideResNet by adding two layers (softmax as last layer) for both age and gender estimation.</div></div><div><div>●</div><div>Data augmentation methods such as mixing, erasing were used to remove overfitting and obtained a validation loss of 3.731.</div></div></div>
CERTIFICATIONS & TECHNOLOGIES
<div><div>➤</div><div>Diploma in Data Science Naresh / Technologies 2019</div><div><div>●</div><div>Python, R programming, Data architecture, Big Data Distributed Computing and Complexity, Hadoop, RDBMS, Map-Reduce Framework, data cleaning, Visualization; Infographics, spatial analysis, analytics concepts, Exploratory data analysis (EDA).</div></div><div><div>●</div><div>Statistics including applications of hypothesis testing, ANOVA, correlation and Regression; Machine Learning algorithms, supervised & unsupervised learning, Sentimental analysis; Intro PIG, Hive, Apache Spark.</div></div></div> <div><div>➤</div><div>AWS Technical Essentials: EC2, VPC, S3, IAM, RDS, DynamoDB, CloudWatch, CloudFormation, Elastic Beanstalk, Lambda, Route 53, SNS, SQS, Kinesis, Redshift, CloudFront, EBS, ELB, Glacier, EFS, Direct Connect</div></div> <div><div>➤</div><div>Premiere Campus Induction Program Axxess Academy 2020</div><div><div>●</div><div>Conceptualize project mockups and wireframes, Agile, Jira Usage - Epic, Story and Task creations, Architect component-based UI leveraging React, Project implementation, and integration of projects.</div></div><div><div>●</div><div>Worked with HTML, CSS, Bootstrap, JavaScript, Nodejs, ReactJS, JSON, Git & BitBucket, XML, PostGreSQL, Rest API, spring boot, React Router, Jenkins, Kubernetes, and Docker containers.</div></div></div> <div><div>➤</div><div>Core Java and JavaScript certifications Naresh / Technologies 2020</div></div> <div><div>➤</div><div>Certified in Ethical Research: CITI Program in "IRB Member" & Social, Behavioral, Educational Research with Human Subjects.</div></div>
POSITIONS OF RESPONSIBILITY
<div><div>➤</div><div>Teaching Assistant Mechanical Engineering Department IITM 2019-2020</div><div><div>●</div><div>Guided and Taught Undergraduate students to perform machining and experiments in their Lab course.</div></div><div><div>●</div><div>Attended Invigilation duties for departmental course exams during mid and end semesters.</div></div></div>
<div><div>➤</div><div>SPONSORSHIP COORDINATOR –MECHANICA 2017</div><div><div>●</div><div>Streamlined sponsorship procedure by targeting Automotive companies; Retained 85% of the previous Sponsors.</div></div><div><div>●</div><div>Contributed 1.25 lakhs for incremental sponsorship; increased participation via associations for coupons and merchandise.</div></div></div>
<div><div>➤</div><div>Coordinator , Hospitality SAARANG 2017</div><div><div>●</div><div>SAARANG is the annual cultural festival of IIT Madras spanning over 4 days with an estimated footfall of 75000</div></div><div><div>●</div><div>Coordinated with a team of 24 to manage crowd movement across the festival.</div></div><div><div>●</div><div>Managed and guided people from the front registration desk to events and payments to accommodation.</div></div><div><div>●</div><div>Managed over 1000 people per day such as sponsors, participants, and audience.</div></div></div>
<div><div>➤</div><div>Coordinator, Hand Gesture Robotics- Events SHAASTRA 2017</div><div><div>●</div><div>Planned and conducted the first-ever Hand gesture robotics event in India.</div></div><div><div>●</div><div>Designed a 3D arena model in PTC CREO and led the team to build a physical arena.</div></div><div><div>●</div><div>Created concept and problem statement. Got 20 successful registrations from other IITs across India.</div></div></div>
VOLUNTEERING ACTIVITIES
<div><div>➤</div><div>NSS Volunteer IIT MADRAS Railtel project July'15-May'16</div><div><div>●</div><div>Developed instructional video modules in English and local languages to teach essential computer applications for daily use.</div></div><div><div>●</div><div>Also recorded videos related to the C language in order to inspire children to take up programming.</div></div><div><div>●</div><div>Visited schools and social organizations to get our material to as many people as possible.</div></div></div>
ADDITIONAL INFORMATION
<div><div>➤</div><div>Languages: English, Telugu, Hindi, Tamil, Traditional Chinese(beginner)</div></div> <div><div>➤</div><div>Hobbies: Travelling, Hiking, Badminton, Swimming, Gym, Farming, activities (kayaking, sword fighting, zumba), exploring tech</div></div>