KAJA SAI SREEKAR

GRADUATE STUDENT

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EDUCATION

Kennesaw State University	*2022-2024*
*Master of Science in Computer Science	(Current)*	
Indian Institute of Technology Madras (IIT Madras), Chennai	*2020*
B.Tech. in Mechanical Engineering and M.Tech. in Intelligent Manufacturing	
Sri Chaitanya Junior College, Raman Bhavan, Vijayawada	*2015*
*Class XII (Board of Intermediate Education Andhra Pradesh)	Percentage: 96.2*	
Dr. KKR's Gowtham International School, Vijayawada	*2012*
*Class X (Andhra Pradesh Board of Secondary Education)	CGPA: 9.5/10*	

RELEVANT COURSES

- Introduction to Programming
- Probability and Statistics
- Theory of Computation
- Data Structures and Algorithms using Python
- Machine Learning
- Database Systems
- Data Science
- Automation in manufacturing
- AI in Manufacturing
- Microprocessors in Automation
- Mathematical Structures

SKILLS

- **Technologies:** Spring boot, Kafka, Solace, OracleSQL Developer, Bitbucket, Maven, Jenkins, STS, IBM AppScan, React JS, Elastic, OCP, JasperSoft, Jira
- **Machine Learning Packages**: scikit learn, pandas, tensorflow, keras, numpy
- **Operating Systems:** Windows, Linux, Ubuntu

- **Programming Languages:** C, Python, R, Java, JavaScript
- **Software:** CREO, MATLAB, Azure ML, SAS, Hadoop, Databricks, Postman, Swagger
- **Data Visualization Tools & Libraries:** Matplotlib, ggplot, Tableau

RELEVANT PROFESSIONAL EXPERIENCE

- **Developer - Technology & Innovation| Standard Chartered GBS |Aug'20 - July'22**
  - As a **Techno Banker**, I majorly contributed to developing **Banking Systems and Payment applications** using relevant full-stack.
  - Developed three **Microservices** connected with messaging technologies such as **Kafka** and **Solace** that implemented crucial functionality to enhance the customer experience system. and Developed unit test cases and design documents.
  - Involved in User story analysis and Functional requirements, **Release Acceptance activities** which involve Review of Design, Code, and implementation, App Install Documentation.
  - Performed as a **Defect coordinator** by coordinating with the concerned teams and arriving at a fix for the defect during **System/UAT testing** phase and prod support.
  - Worked on developing **models for scorecards** majorly using SAS. Automated scoring and monitoring codes using **macros** and SQL queries for data management and analysis in **SAS**.

- **Graduate Research Assistant | Kennesaw State University |Aug'22 - June'23**

- **Machine Learning & Data Analyst Intern| Edarlabs Learning Pvt Ltd | June'19- July'19**
  - Transformed collected customer data to structured format and performed data cleaning.
  - Performed Exploratory Data Analysis (**EDA**) on the data and Built an ML model to segment product acceptance levels of various customers.
  - Prepared DataFrame from collected data and Used **K-means** clustering and **elbow method** to group customers,
  - Selected potential customers and ranked them based on product acceptance level. Created PowerPoint presentations with relevant **visualizations** to detail potential customers to be targeted by certain products.

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**.

- **Loan Data Prediction**
  - **Predicted defaulters** in customers using the Logistic Regression model.
  - 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.
  - Used multicollinearity analysis to **understand the highly correlating variables** and **confusion matrix** to interpret the output.

- ➢ **NBA analysis**
  - Formatted **5 Data frames** from raw data collected using **rbind** in **R**.
  - Created **visual aid** using **matplot** for FieldGoalAttempts, FieldGoals, Games,MinutesPlayed,Salary of NBA players over seasons.
  - Analyzed the performance of players over seasons, based on their ups and downs using **data visualization** tools.

- ➢ **ZS Data Science Problem | July'19**
  - Built multiple models to predict successful goal attempts by Cristiano Ronaldo**;** Top **7%** among all entries.
  - Performed pre-processing which involved cleaning of data, **data imputation techniques** for missing data.
  - Compared classification models with **Logistic, ANN, Random Forests, & SVM techniques** and AUC & ROC analysis of models.
  - Performed Regression analysis on extracted features and achieved a **score of 0.828, score=1/(1+MAE)**.

- ➢ **Age and Gender estimation | Jan'19-May'19**
  - 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.
  - Pre-trained WideResNet by adding two layers (softmax as last layer) for both **age and gender estimation.**
  - Data augmentation methods such as **mixing**, **erasing** were used to remove overfitting and obtained a **validation loss** of **3.731.**

CERTIFICATIONS & TECHNOLOGIES

- ➢ **Diploma in Data Science | Naresh *i* Technologies | 2019**
  - Python & R programming concepts, Data architecture, Big Data Distributed Computing and Complexity, Hadoop, RDBMS, Map-Reduce Framework, data cleaning; Infographics, Data Visualization, spatial analysis, analytics concepts, Exploratory data analysis (EDA).
  - Statistics including applications of hypothesis testing, ANOVA, correlation and Regression; Machine Learning algorithms, supervised & unsupervised learning, Sentimental analysis; Intro PIG, Hive, Apache Spark.
- ➢ **Premiere Campus Induction Program | Axess Academy | 2020**
  - 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.
  - HTML, CSS, Bootstrap, JavaScript, Nodejs, ReactJS, JSON, Git & BitBucket, XML,PostGreSQL, Rest API development, spring boot,React Router, Jenkins and VX pipeline.
- ➢ **Core Java | Naresh *i* Technologies | 2020**
- ➢ **JavaScript | Naresh *i* Technologies | 2020**

POSITIONS OF RESPONSIBILITY

- ➢ **Teaching Assistant | Mechanical Engineering Department |IITM 2019-2020**
  - Guided and Taught Undergraduate students to perform machining and experiments in their Lab course.
  - Attended Invigilation duties for departmental course exams during mid and end semesters.

- ➢ **SPONSORSHIP COORDINATOR –MECHANICA 2017**
  - Streamlined sponsorship procedure by targeting Automotive companies**;** Retained **85%** of the previous Sponsors.
  - **Contributed 1.25 lakhs** for incremental sponsorship**;** increased participation via associations for coupons and merchandise.

- ➢ **Coordinator , Hospitality | SAARANG 2017**
  - **SAARANG** is the annual cultural festival of IIT Madras spanning over 4 days with an estimated **footfall of 75000**
  - Coordinated with **a team of 24** to manage crowd movement across the festival.
  - Managed and guided people from the front registration desk to events and payments to accommodation.
  - Managed over **1000 people per day** such as sponsors, participants, and audience.

- ➢ **Coordinator, Hand Gesture Robotics- Events| SHAASTRA 2017**
  - Planned and conducted the first-ever Hand gesture robotics event in India.
  - Designed a 3D arena model in **PTC CREO** and led the team to build a physical arena.
  - Created concept and problem statement. Got **20 successful** registrations from other IITs.

VOLUNTEERING ACTIVITIES

- ➢ **NSS Volunteer IIT MADRAS| Railtel project | July'15-May'16**
  - Created content and recorded video modules in English and local language related to basic computer applications that people can use in their daily lives.
  - Also recorded videos related to the C language in order to inspire children to take up programming.
  - Visited schools and social organizations to get our material to as many people as possible.

ADDITIONAL INFORMATION

- ➢ **Languages:** English, Telugu, Hindi
- ➢ **Hobbies:** Farming, Badminton, Swimming, Gym