

# CHIRAG MAKWANA

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## EDUCATION

<b>Vellore Institute of Technology, Masters (integrated) Software Engineering</b>	CGPA: <b>8.18</b>	Present
<b>Desire Academy, Class - 12th</b>	Percentage(PCM): <b>83%</b>	2019 - 2020

## SKILLS

<b>Software Technology</b>	Data structure and Algorithm, OS, DBMS, CN , SQL , Software Testing
<b>AI Technology</b>	Data Analysis, Machine learning, Deep Learning, Generative AI, Natural Language Processing
<b>Libraries and Tools</b>	GitHub, Docker, LangChain, LambdaIndex, SK-learn, Tensorflow, Flask, Pandas
<b>Language and Other</b>	Python , C++ ,Tensorflow ,Sklearn , APIs , SQL, RAG System , MySql

## PROJECTS

### Inventory Product Information Generation using LLM -RAG system [Link](#) 01/2024 to 02/2024

- Developed a web app using Google Lens API and Large Language Models (LLM) to extract product details (name, color, price, description) from images, reducing manual data entry by 75%.
- Engineered laptop camera image capture for Google-PALM powered product detail extraction, streamlining processes and reducing manual input by 30%.
- Developed a LLM model for product attribute extraction, boosting accuracy by 40% and enhancing customer engagement metrics.

### Real-time Data Pipeline with Airflow Kafka, Spark, and Cassandra [Link](#) 03/2024 to 04/2024

- Designed and implemented a real-time risk data pipeline with Apache Airflow, Kafka, Spark, and Cassandra for high-performance storage.
- Automated data retrieval and containerized deployment, optimizing real-time processing and storage, cutting resolution time by 50% while ensuring data accuracy.
- Achieved high throughput with Kafka Connect facilitating ingestion rates exceeding 10,000 messages per second.
- Enabled real-time risk analytics with Spark micro-batch processing (500 ms) and Cassandra's sub-millisecond data storage, ensuring timely and accurate risk assessment.

### Financial Risk Analysis using Exploratory Data Analysis [Link](#) 04/2023 to 05/2023

- Utilized EDA techniques to identify patterns and risk factors associated with loan default, employing statistical analysis.
- Delivered in-depth analysis and developed predictive models to refine risk assessment strategies, reducing loan default rates by 20% and improving approval accuracy by 15% within 6 months
- Cash loans have a higher default rate (8%) than revolving loans (5%).
- Clients with higher income have lower default rates: 10% for income < 2 Lakhs and 6% for income > 3 Lakhs.

## EXPERIENCE

### IEEE-PCS, Technical Head | VIT Vellore (Chapter) 01/2022 to 01/2023

- Made a Chrome extension for the IEEE-PCs blindfolded hackathon, aiding 200+ participants' accessibility.
- Mentored over 50 junior students, helping them develop their skills and expertise in technical areas (AI/ML/Data Science/DevOps). This resulted in a 20% improvement in their project completion rate and positive feedback on my mentoring approach from students and faculty..
- Spearheaded VIT Technical Fest (GRAVITAS-2022), coordinating technical events with effective project management and teamwork.

## CERTIFICATES

<b>Microsoft Security, Compliance, and Identity Fundamentals</b>	<b>E-Traning(Certiport)</b>
<b>Generative AI with Large Language Models</b>	<b>DeepLearning.ai - Coursera</b>
<b>Build Basic Generative Adversarial Networks (GANs)</b>	<b>DeepLearning.ai - Coursera</b>

## AWARDS

<b>Technical Head - IEEE-PCS</b> VIT Vellore, Tamil Nadu	<b>Best Student of the Year</b> Shri Sai Academy, Indore, M.P
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