

# BHARATH GIRIRAJAN

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## EDUCATION:

<b>University of Connecticut, School of Business-Hartford, CT</b> Master of Science in Business Analytics and Project Management	<b>Aug 2023 – Dec 2025</b>
<b>RMK Engineering College, -Chennai, India</b> B.E, Electronics and Communication Engineering (GPA 7.83/10)	<b>Sep 2017 – Jun 2021</b>

## RELEVANT COURSEWORK:

Statistics in Business Analytics, Data Management and Business Processing (*Database Technologies*), Predictive Modeling, Data Driven Knowledge (*R-programming*), Visual Analytics, Probability, and Random Processes

## TECHNICAL SKILLS:

**Programming Languages:** Python, Java, and R.

**Database:** MariaDB, postgreSQL.

**Libraries/Frameworks:** NumPy, Pandas, Matplotlib, Seaborn.

**Data Techniques:** Supervised and Unsupervised Machine Learning, Exploratory Data Analysis, Web Scraping, Data Visualization, Hypothesis, Time Series, ETL, and Statistics

**Web Technologies:** XML, JSON, Hibernate, Spring-MVC, Spring-Boot.

**Tools:** Power BI, Visio, Maven, Jenkins, JUnit, GitHub, Jira, and PuTTY.

**Certifications:** Microsoft Certified Power BI Analyst (PL-300), Oracle Certified Associate (1Z0-808), Microsoft Azure Fundamentals (AZ-900), Azure AI Fundamentals (AI-900) and Microsoft Azure Data Fundamentals (DP-900).

## RELEVANT EXPERIENCE:

<b>Cognizant Technology Solutions, Chennai.</b>	<b>Oct 2021-Jul 2023</b>
<b>Programmer Analyst</b> <ul style="list-style-type: none"><li>Collaborated with cross-functional teams to analyze user requirements, design database schemas, and develop SQL queries, resulting in a 20% increase in payment gateway efficiency.</li><li>Functioned within a 10-member project in a fast-paced Agile environment, orchestrating seamless application deployments across all release environments.</li><li>Pioneered the design and implementation of top-tier REST-based API solutions in Java, powering applications such as SCAN Reload (barcode generation for POS terminals) and Remote Deposit Capture.</li><li>Enhanced security by mitigating URI-based threats through the implementation of regex expressions across multiple applications, achieving a 100% reduction in security vulnerabilities.</li></ul>	

<b>Netzwerk Academy, Bangalore.</b>	<b>Aug 2020 – Dec 2020</b>
<b>Python Instructor, Intern</b> <ul style="list-style-type: none"><li>Taught advanced Python concepts to 20+ students, resulting in a 95% improvement in understanding and application of Pandas, Matplotlib/Seaborn, and statistical analysis.</li><li>Developed and delivered a hands-on workshop to empower students with practical skills in Python-based machine learning, covering essential topics such as feature engineering, predictive modeling, and evaluation using Scikit-Learn.</li></ul>	

## ACADEMIC PROJECTS:

<b>Real-Time Human Movement Detection Using Raspberry PI (Research Study)</b>	<b>Jan 2021 – Apr 2021</b>
<ul style="list-style-type: none"><li>Developed real-time systems with 95% face recognition accuracy and person counting using Raspberry Pi. Pioneered human movement detection research was published in the "<a href="#">Turkish Online Journal of Qualitative Enquiry</a>".</li><li>Implemented cloud-based image storage and email notifications and leveraged insights from notable research references in the development of both projects, demonstrating strong technical proficiency.</li><li>Led a 5-member team in achieving exceptional results, surpassing a 90% accuracy rate in movement detection; demonstrated adaptability, ingenuity, and the ability to foster effective teamwork for impactful outcomes.</li></ul>	

<b>Heart Disease Prediction using Machine Learning</b>	<b>Sep 2020</b>
Utilized Python-based Machine Learning algorithms, including Naïve Bayes, Logistic Regression, SVM, XGBoost, and Random Forest, to achieve 96% accuracy in predicting cardiac disease based on a set of input features, leveraging libraries such as Pandas, NumPy, Scikit-Learn and Matplotlib.	

## ACHIEVEMENTS & AWARDS:

- Started an entrepreneurial venture, clutchi.in, an e-commerce platform for selling Print-On-demand T-shirts.
- Received an award from the Cognizant Technology Solutions Academy team for consistently maintaining a 95% success rate in teaching Java programming to incoming interns.