

# JEREMIAH RANEN R



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## Professional Summary

Data Science and Analytics professional skilled in Python, SQL, machine learning, Generative AI, LLMs and data visualization. Experienced in data cleaning, EDA, feature engineering, statistical analysis and model evaluation with expertise in Power BI and Tableau. Strong analytical and problem-solving abilities with a focus on transforming data into actionable business insights and data-driven solutions.

## Professional Experience

### Python and Data Science Intern

Bangalore Jun 2022 - Jul 2022

#### TechCiti Technologies Private Limited

Gained practical experience in Python and Data Science through hands-on projects and mentorship from industry experts.

- Applied Python and data science concepts to real-world business problems under the guidance of industry professionals.
- Developed a machine learning model for second-hand car price prediction using Tkinter and ML algorithms.
- Collaborated with team members to understand industry expectations and recruitment standards.
- Explored the role of Python in full-stack development and its applications in business analytics.

### Full-Stack Web Developer Intern

Remote Jun 2024 - Aug 2024

#### Zidio Development Private Limited

Enhanced full-stack development skills and contributed to the creation of an E-learning platform using the MERN stack.

- Learned and implemented MERN stack technologies through collaborative projects with industry mentors.
- Developed the frontend and backend of an E-learning platform, focusing on user experience and responsive design.
- Received a stipend for outstanding performance and significant contributions to the group project.
- Gained valuable exposure to industrial workflows and best practices in web development.

# Projects

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## AI-Driven Early Detection of Pancreatic Cancer Using Explainable AI

<https://github.com/JeremiahRanen7/AI-Driven-Early-Detection-of-Pancreatic-Cancer>

- Developed a predictive model using machine learning and explainable AI techniques to detect early pancreatic cancer indicators, improving transparency and supporting clinical decision-making.

## TAMHERITAGE - AI Powered Heritage Site Explorer & Intelligent Travel Planner

<https://github.com/JeremiahRanen7/Tamheritage---AI-Powered-Heritage-Site-Explorer-Intelligent-Travel-Planner>

- Created an AI-driven travel planner that recommends Tamil Nadu heritage sites based on user interests, cultural data, and optimized itinerary generation.

## Customer Segmentation, Campaign Effectiveness Analysis, and Product Recommendation System

<https://github.com/JeremiahRanen7/Customer-Segmentation-Campaign-Effectiveness-Product-Recommendation>

- Developed an end-to-end Retail Analytics Platform using the Dunnhumby 'The Complete Journey' dataset to segment customers, analyze campaign effectiveness, and build a product recommendation system.

## QR-Code Authentication System using Computer Vision

<https://github.com/JeremiahRanen7/qrcode-authentication>

- Develop a secure and efficient access control system using QR codes. By leveraging computer vision techniques, the system scans, decodes, and verifies QR codes in real-time to grant or deny access based on an authorized list.

# Education

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## Post Graduate Program - Data Science Engineering with Generative AI

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|--------------------------------|--|---------------------|
| Great Lakes Executive Learning |  | Aug 2025 - Aug 2026 |
|--------------------------------|--|---------------------|

## B. Tech. Artificial Intelligence and Data Science

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|---------------------------------------------|------|---------------------|
| KPR Institute of Engineering and Technology | 8.82 | Oct 2021 - May 2025 |
|---------------------------------------------|------|---------------------|

## Senior Secondary Education

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|---------------------------|-------|---------------------|
| The Optimus Public School | 94.2% | Apr 2020 - Mar 2021 |
|---------------------------|-------|---------------------|

## Higher Secondary Education

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|---------------------------|-------|---------------------|
| The Optimus Public School | 88.8% | Apr 2018 - Mar 2019 |
|---------------------------|-------|---------------------|

## Skills

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**Programming Languages:** Python, JavaScript, SQL

**Python Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Plotly (Basic), SciPy, Statsmodels

**Databases:** MySQL, SQL Server, MongoDB (Aggregation Pipelines & Visualization)

**Data Analytics:** Data Cleaning, Feature Engineering, Exploratory Data Analysis (EDA), Data Visualization

**Business Intelligence:** Power BI, Tableau, Dashboard Design, KPI Monitoring

**Web Scraping:** BeautifulSoup

**Machine Learning:** Scikit-learn, Imbalanced-learn (Imbalanced-learn), Optuna, Explainable AI (XAI)

**Deep Learning:** TensorFlow, Keras, PyTorch

**Computer Vision:** OpenCV

**Natural Language Processing:** NLTK

**Generative AI:** LangChain, Ollama

**Web Development:** React, HTML5, CSS3, Tailwind CSS, Node.js, FastAPI, Flask, REST APIs, Pydantic

**API & Development Tools:** cURL, HTTPie, Streamlit, Gradio

**Version Control & Cloud:** Git, GitHub, Docker, AWS (Basic)

**Core Concepts:** Statistics, Probability

## Achievements

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**Top 5 Finalist – Hackathon** · [Ksham Innovation](#) 2024

- Selected among the top 5 contestants for developing a website with an integrated chatbot
- Received an interview opportunity with the organization during the second year of college.

**Round 2 Selection – Naan Mudhalvan Scheme** · [Tamil Nadu Govt.](#) 2025

- Selected for Round 2 with the TamHeritage startup idea and received ₹10,000 in project funding to support further development and implementation.

## Certifications

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**Acquiring Data (Level 1 - AI Fundamentals of AI ASCEND) by Accenture** 2022  
[Future Skills Prime / NASSCOM](#)

**SQL for Data Science (UC Davis)** 2023  
[Coursera](#)

**Server-Side Development and Databases** 2023  
[L & T Edutech](#)