

# Vishwa R

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## EDUCATION

### Coimbatore Institute of Technology

M.Sc Decision and Computing Sciences – CGPA: 7.9/10

Coimbatore, India

November 2021 – Present

## EXPERIENCE

### Data Science Intern

Prediscan Medtech

July 2024 – August 2025

Chennai, India

- Directed data research to develop predictive models for cholesterol risk assessment, enhancing diagnostic accuracy and reducing reliance on invasive testing methods.
- Engineered data-driven biomarker extraction strategies that enabled high-precision cardiovascular risk evaluation, significantly strengthening clinical decision-making and outcome prediction.
- Designed and streamlined automated data preprocessing workflows for 6,000+ records, improving data consistency, accelerating feature extraction, and enhancing model readiness.

## PROJECTS

### Automated GitHub PR Review Agent | Python, LangChain, FastAPI, Firestore



- Led end-to-end design of an automated pull-request review system that reduced average PR review time from 45 minutes to under 5 minutes through multi-perspective AI evaluation and structured orchestration logic.
- Engineered a scalable review pipeline capable of processing large diffs (10k+ lines) by implementing deterministic chunking, prioritization, and multi-agent analysis, increasing review coverage consistency by over 80%.
- Implemented a full production life cycle including authentication, rate-limit protection, error-tolerant processing, and persistent review history, enabling reliable multi-user operation with near-zero failure rates under load.

### Loan Approval Prediction | Python, Pandas, Matplotlib, Seaborn



- Quantified portfolio credit risk by analyzing 91k+ applicant records and isolating high-impact predictors of default, elevating decision confidence for loan approval screening.
- Synthesized diverse borrower attributes into actionable insights, clarifying approval drivers across income ratios, interest tiers, and credit history length for leadership reporting.
- Optimized approvals with a cross-validated AUC of 0.966, strengthening decision accuracy across segments and enabling reliable probability-based loan decisions.

### HR Attrition Prediction System | Python, Flask, Plotly, Dash



- Preprocessed and standardized IBM's HR dataset to enhance data quality and support reliable workforce analysis.
- Performed in-depth exploratory analysis and statistical assessments, revealing a 16.12% overall attrition rate and cross-departmental variations.
- Designed dynamic visual dashboards to highlight attrition by income, age, tenure, promotions, and job satisfaction, driving data-informed decision-making.

## TECHNICAL SKILLS

**Programming:** Python, R, SQL

**Frameworks:** Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Matplotlib, spaCy, Beautiful Soup, LangChain

**Web Development:** Django, Flask, FastAPI

**Databases & Cloud:** MySQL, MongoDB, Google Cloud Platform

**Tools :** Microsoft Excel, Microsoft Power BI, Tableau, Jupyter Notebook, Google Colab, GitHub

## SOFT SKILLS

Flexible | Curiosity & Innovation | Continuous Learning | Cross-functional Collaboration

## CERTIFICATIONS

Udemy: Machine Learning A-Z: AI, Python & R

Udemy: Microsoft Power BI Desktop for Business Intelligence