RISHIT JAIN

Data Science & AI • Machine Learning • RAG Systems • Behavioral Analytics

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PROFILE

Forward-leaning data and AI practitioner with a hybrid foundation in mathematics, machine learning, and consumer behavior. Experienced in constructing RAG pipelines, data engineering systems, and full-stack applications focused on productivity, learning, and decision-making.

EDUCATION

BS – Data Science & Applications, IIT Madras — CGPA: 7.33
• Machine Learning Foundations, Business Analytics, Data Visualization, Data Management, Python Programming

B.Sc. (Hons) Mathematics, Kirori Mal College — CGPA: 7.09
• Linear Algebra, Probability, Real Analysis, Differential Equations, Calculus

Diploma – Entrepreneurship & Consumer Behavior, MTF Institute, Portugal
• Behavioral economics, entrepreneurship frameworks, consumer psychology

SKILLS

Data & AI:
• Python, NumPy, Pandas, Matplotlib, Seaborn
• Classification, Clustering, Regression, Evaluation
• RAG Systems: Embeddings, Chunking, FAISS vector search, Prompt Engineering
• Whisper audio-to-text pipelines
• Neural network intuition (CNN/RNN basics)

Software & Development:
• Flask APIs, JavaScript, HTML, CSS, Jinja
• Git/GitHub workflows, automation scripting
• BeautifulSoup and web scraping

Business, Statistics & Behavioral:
• Logistic Regression, A/B Testing, DEA
• Probability, Distributions, Statistical Inference
• Behavioral Economics, Consumer Psychology

PROJECTS

RAG-BASED AI TEACHING ASSISTANT
• End-to-end retrieval-augmented system converting lectures into searchable responses.
• Whisper transcription → metadata chunking → embeddings → FAISS vector DB.
• GPT-5-based synthesis with structured prompts.
• Pipeline optimization, reduction of noise, refined embeddings, full API packaging.

DailyDo – AI Productivity Co-Pilot
• A minimal, aesthetically clean productivity assistant.
• Smart task categorization and contextual prompts.
• Lightweight modular backend and expandable UI.

Hospital Management System
• Flask-based full-stack management system.
• Secure modules for patients, doctors, pharmacy, dashboards.

Graph Recommendation Systems
• Built 'People You May Know' and 'Pages You May Like' models.
• Graph traversal, similarity scoring, ranking heuristics.

Python Mini-Projects
• PDF Merger, QR Generator, File Organizer, AI Assistant, News Fetcher, KBC Game, Water Reminder, Calculator.

EXPERIENCE

BB Advisory – FOREX Market Research Intern
• Analyzed price volatility & macro-linked commodity data.

LEADERSHIP & INITIATIVES

City Head – Gift a Smile
• Led outreach supporting underprivileged students.

Founder – ButCrackWhat!
• Mentored 17+ students and built structured career guidance frameworks.

CERTIFICATIONS

• Entrepreneurship & Startups — MTF Institute, Portugal
• Behavioral Finance — YouAccel
• Marketing Analytics & Pricing — Start-Tech Academy
• Influence & Persuasion Psychology — Expert Academy
• Digital Marketing Copywriting — GIGL
• Forensic Psychology Diploma — CodeZen Technologies
• Additional modules in AI, ML, behavioral science