

Krishnavyas Desugari

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SUMMARY

Data Scientist with advanced training in Machine Learning, Statistical Modeling, and Causal Inference, master's degrees in Financial Engineering and Management Information Systems. Skilled in building predictive models, forecasting systems, and intelligent automation pipelines using Python, SQL, and cloud platforms. Demonstrated success in developing AI-driven tools that improve decision-making, detect anomalies, and optimize operations. Experienced across AI, financial, and analytics ecosystems, combining data science techniques with strong product sense. While still expanding hands-on expertise in deep learning and MLOps, I bring strong transferable experience in model experimentation, automation, and scalable analytics using AWS and Databricks.

SKILLS

Programming & Modeling: Python, R, SQL, Pandas, NumPy, Scikit-learn, Statsmodels, Prophet, TensorFlow, DuckDB

Machine Learning & AI: Supervised & Unsupervised Learning, Predictive Modeling, NLP (LLMs), Anomaly Detection, Causal Inference, A/B Testing, Statistical Modeling

Data Engineering & Automation: ETL, Data Pipelines, AWS (Cloud & ML Foundations), Git, Automation (n8n), Streamlit Apps, API Integration

Visualization & BI: Power BI, Tableau, Matplotlib, Seaborn, Excel (Advanced), Data Storytelling

Tools & Environments: Jupyter, Databricks, Docker (concepts), Alteryx, Selenium, MongoDB

EXPERIENCE

AI Data & Security Intern | WalletGyde

Aug 2025 - Present

- Engineered and deployed machine learning models on GCP to detect and prevent fraudulent transactions, feeding high-fidelity alerts into the SIEM ecosystem and reducing false positives by 20%.
- Implemented SOAR playbooks using Splunk Phantom to automate incident response workflows, reducing mean time to resolution (MTTR) for common security alerts by 40%.
- Architected and deployed real-time threat monitoring dashboards using Splunk and Elastic SIEM to visualize security events, providing actionable alerts on threats to financial data.
- Developed ML-driven fraud detection models that cut false-positive transaction alerts by 22%.

Data Analyst | California State University, Long Beach - Information Technology & Research

Jan 2024 – May 2025

- Developed and operationalized advanced analytics solutions, creating forecasting models that cut procurement lags by 30% and improved inventory flow within the supply chain infrastructure.
- Managed projects end-to-end, employing Agile Software Development practices to spearhead UAT cycles and deploy iterative product enhancements.
- Designed and implemented scalable applications by writing Python scripts and leveraging Pandas for data processing, reducing manual reporting workload by 25%.
- Utilized AWS cloud services and Git for version control, contributing to core advanced analytics tools and platforms to enable prediction model development.

Data Analyst & Integration Specialist | BSCA&A partners

May 2022 – Aug 2023

- Led data quality and standardization, performing ETL processes to migrate and integrate complex data from 15+ source systems.
- Designed and implemented automated applications to optimize operational performance, slashing report turnaround time by 35% and recovering over 15 analyst hours monthly.
- Collaborated with teams and utilized Git to manage codebases, ensuring policy compliance and minimizing technical debt during system migrations.
- Contributed to the development of analytical platforms by applying statistical methods for root cause investigations, resolving over 120 inconsistencies in ERP systems.

Subject Matter Expert | Chegg India

Oct 2020 - Aug 2023

- Applied Excel to perform data modeling and statistical testing (regression, ANOVA, hypothesis testing), solving 30+ complex problems daily to provide actionable insights
- Delivered high-quality analytical solutions, maintaining a 95%+ accuracy and satisfaction rating through clarity and correctness.
- Authored over 1,000 structured tutorials, translating complex statistical topics to bridge technical analysis with non-technical understanding and enhance decision-making clarity.

PROJECTS

AI Logistics Optimization Agent - Interactive ML-Powered Delivery Mode Recommender | Python, Streamlit, scikit-learn, pandas, Matplotlib, Seaborn

- Designed an intelligent decision-support tool using Python, Streamlit, and scikit-learn that recommends optimal delivery modes based on shipment attributes.
- Integrated machine learning with confidence scoring, cost/ETA estimation and self-learning loop via decision logs.
- Deployed an interactive UI with filtering, visualization, and retraining capabilities.

Retail Sales Forecasting & Automation | Python, DuckDB, Prophet, Power BI, Large Language Models (LLM), Automation

- Built a real-world sales forecasting and reporting pipeline using Python, DuckDB, Prophet, Power BI, and Ollama.
- Analyzed weekly sales to identify trends, build 3-month forecasts, and auto-generate executive summaries with LLMs.
- Automated Walmart's weekly email delivery of reports using n8n cloud + SMTP, reducing manual reporting by 40%.

Automated Data Entry & Form Submission Tool | Python, Selenium WebDriver, Requests, pandas

- Developed a Python-based automation script using Selenium and Requests to extract data and auto-fill complex web forms.
- Scraped career sites and processed Excel datasets with Pandas, reducing manual data entry effort in job applications by 90%.

EDUCATION

Master of Science, Financial Engineering | WorldQuant University

Master of Science Management Information Systems | California State University, Long Beach

Relevant Coursework: Business Data Analysis, Database Management, Machine Learning for Business Analytics, Programming for Business Analytics, Deep Learning for Business, Responsible Artificial Intelligence, Information Systems Project

Bachelor of Engineering - BE | Jawaharlal Nehru Technological University

Relevant Coursework: Programming in C, Matrices and Numerical Methods, Multi-Variable Calculus and Differential Equations, Supply Chain Management, Operations Management, Finite element Analysis, Electrical Engineering

CERTIFICATIONS

Google: Google Advanced Data Analytics, AI Essentials, Project Management, IT Automation with Python, Crash Course on Python

AWS Academy: AWS Academy Cloud & Machine Learning Foundations

Databricks: Databricks Fundamentals Accreditation

Alteryx: Alteryx Designer Core Micro-Credential: Data Transformation

Macquarie University: Excel Fundamentals for Data Analysis

DataCamp: Tableau, SQL, Python

IBM: Enterprise Design Thinking - Team Essentials for AI, Co-Creator, and Practitioner

Professional Engagements & Achievements

Runner-Up at Alteryx - CSUF Datathon - Achieved Runner-Up by developing a data-driven solution using Alteryx and Tableau to analyze complex datasets, demonstrating analytical precision and rapid problem-solving.