

DORA HEMA SAI DURGA BHARGAV

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EDUCATION

Bachelor of Engineering in Computer Science

SRINIVASA INSTITUTE OF ENGINEERING AND TECHNOLOGY (Autonomous)

2021 – 2025

Amalapuram

WORK EXPERIENCE

Data Scientist Trainee | Innomatics Research Labs, Hyderabad

Jun 2024 – Sep 2024

- Engineered five new features using Python, Pandas, and NumPy, integrating them into machine learning models, and enhancing prediction accuracy by 12% within a real-world sales forecasting project.
- Performed **Exploratory Data Analysis (EDA)** on diverse datasets to identify trends, correlations, and insights that enhanced business decision-making accuracy by 25%.
- Developed and evaluated **machine learning models** for regression and classification tasks, achieving up to 85% prediction accuracy.
- Created insightful **data visualizations** using Matplotlib, Seaborn, and Power BI to present findings effectively to technical and non-technical audiences.

PROJECTS

Real Estate Data Analysis and Visualization | Python, Pandas, Matplotlib, Web Scraping

- Designed and deployed a Python-based web scraping pipeline that extracted 2,000+ rental listings from major real estate websites, improving data acquisition speed by 40%.
- Cleaned and analyzed rental data using Pandas and NumPy to identify trends in pricing, locations, and property sizes.
- Analyzed datasets with 1M+ data points using Matplotlib and Seaborn to produce visualizations that supported tactical decisions, improving market positioning and competitive advantage.

Library Database Analysis project | MY SQL

- Implemented a relational database schema comprising 8 tables for publishers, books, and borrowers, using MySQL, enhancing data access speeds for the existing 30 library staff.
- Orchestrated the construction of normalized relational tables incorporating primary and foreign keys, diminishing data discrepancies by 30% through rigorous enforcement of referential integrity constraints across the database.
- Developed and executed advanced indexing strategies on critical attributes such as BookID, BranchID, and CardNo, improving query performance speed by 40% and enhancing overall database efficiency for over 500,000 records.

Artificial Intelligence in E-Governance and Cybersecurity | Python, Django, MySQL, html/css

- Conducted comprehensive analysis of AI's role in bolstering smart city cybersecurity, improving real-time threat detection accuracy by 10% by enhancing automated response across e-governance systems.
- Engineered a Django-MySQL prototype simulating secure e-governance workflows; implemented 5+ system hardening best practices and reduced simulated attack success rate by 15% through deployment validation.
- Conducted 50+ penetration tests simulating real-world attack scenarios, identifying critical vulnerabilities, and providing actionable recommendations to enhance web application security posture.

TECHNICAL SKILLS

- Languages:** Python, SQL
- Libraries/Frameworks:** Pandas, NumPy, Matplotlib, Seaborn, Plotly, Scikit-learn, Computer Vision
- Tools:** Power BI, Git, Jupyter, VS Code, Google Colab, Excel
- Concepts:** EDA, Machine Learning, Deep Learning, Agentic AI, Regression, Advanced Statistics, Data Visualization

ACHIEVEMENTS

Achievements:

- Achieved a Machine Learning in Python certification from SkillDzire, demonstrating proficiency in building models and performing evaluations, after improving data acquisition speeds by 40% in previous projects.
- Mastered SQL and Python through Innomatic Research Labs certifications, showcasing solid database management and programming skills; subsequently optimized 12 complex SQL queries, enhancing overall application performance.