GANDHAM GUNASHEKAR

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**SKILLS**

* **Programming & Data:** Python (Pandas, NumPy, scikit-learn, Matplotlib, Seaborn), SQL (CTEs, Window Functions, Data Cleaning), Git/GitHub.
* **BI & Visualization:** Tableau (Dashboards, KPI Design, Geospatial), Excel (Pivot Tables, Advanced Functions), Streamlit.
* **Machine Learning:** Classification, Regression, NLP (TF-IDF, Tokenization), Feature Engineering & Selection, Model Evaluation (Accuracy, Precision, Recall, F1, RMSE, MAE).
* **Frameworks:** scikit-learn, TensorFlow, Keras, NLTK.
* **Analytics & Practices:** Data Cleaning & EDA, Data-driven Decision Making, Agile (Scrum, Sprint Planning), CRISP-DM, Stakeholder Reporting & Presentations.

**PROJECT EXPERIENCE**

**PULMONARY EMBOLISM AND ESOPHAGATIS – ML(RESEARCH)**

* Structured patient data (age, BMI, BP, history) and applied **feature selection (SelectKBest)** to build reliable pipelines.
* Developed and compared classifiers (**LogReg, RF, SVM, Gradient Boost**) with **RF achieving 100% accuracy** and others ~99.6–99.7%.
* Evaluated models with **precision, recall, F1-score**, ensuring robustness for clinical use.
* Positioned solution as a **clinical decision support tool** for early diagnosis.
* Documented process and results for **stakeholder adoption and reproducibility**.

**MEDI-CONNECT -** **SYMPTON-TO-MEDICINE PREDICTION — NLP + STREAMLIT (RESEARCH)**

* Preprocessed **112K+ drug review records** using NLP techniques (tokenization, normalization, TF-IDF).
* Benchmarked classifiers, achieving **94.3% accuracy**, aligned with clinical use cases.
* Deployed a **Streamlit web app** with speech-to-text and Google Maps integration for end-user accessibility.
* Framed findings into **business outcomes** (triage optimization, patient support).
* Delivered reproducible pipelines aligned with Agile methodology.

**HEART DISEASE CLASSIFICATION.**

* Applied ML models on the **UCI Cleveland dataset (300 patients, 14 attributes)**.
* Compared classifiers (**LogReg, DT, RF**) using accuracy, precision, recall, F1-score.
* Identified RF as the most **business-relevant model** for balanced accuracy.
* Produced **stakeholder-facing reports** explaining model interpretability.
* Packaged outputs into reproducible workflows, enabling **team collaboration**.

**BLUEBOOK FOR BULLDOZERS – END-TO-END PRICE PREDICTION.**

* Modeled **400K+ auction records** to predict heavy equipment resale prices.
* Engineered temporal, categorical, and equipment-specific features for predictive accuracy.
* Benchmarked regression models (**Linear, RF, GB**) using RMSE, MAE, and R².
* Automated pipelines for data preparation, training, and comparison across models.
* Positioned analysis as a **pricing decision support tool** for procurement.
* Documented workflows for **reusability across teams and projects**.

**AIRBNB DATA ANALYSIS & VISUALIZATION.**

* Standardized **25K+ Airbnb listings** into analysis-ready tables with SQL and Python.
* Developed **dynamic Tableau dashboards** visualizing occupancy, revenue, pricing, and host KPIs.
* Used **geospatial/time-series methods** to detect seasonal shifts and demand clusters.
* Automated pipelines for dashboard refresh, ensuring stakeholders had live data views.
* Supported **strategic pricing and market planning** for host performance optimization.

**WORK EXPERIENCE**

**VOLUNTEER.**

*Mantra Surf Club, Mulki 01-04-2025* ***–*** *01-05-2025*

* Volunteered at Mantra Surf Club, assisting with surfing lessons and teaching stand-up paddling and kayaking to guests.
* Supported daily café operations, delivering customer service and maintaining a welcoming atmosphere.
* Served as Guest Relations Manager, ensuring smooth communication and positive visitor experiences.
* Developed hospitality, communication, teamwork, and cultural sensitivity skills while engaging with diverse people in a vibrant coastal setting.

**PRESIDENT OF CHAITANYA LAASYA (UNITED DANCE CREW).**

*Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad 01-06-2023 – 16-06-2024*

* Led and motivated the team, fostering collaboration and managing conflicts to maintain high morale and performance.
* Planned and executed events, handling logistics, budgeting, and ensuring successful execution under tight deadlines.
* Adapted quickly to last-minute challenges, ensuring smooth event operations despite unexpected issues.
* Managed the club's budget, secured sponsorships, and balanced finances to deliver successful, cost-effective events.
* Drove club growth through strategic visibility campaigns, recruitment efforts, and new initiatives like workshops and social media presence.

**POTENTIAL PUBLICATIONS**

**“PREDICTION OF PULMONARY EMBOLISM AND ESOPHAGITIS USING MACHINE LEARNING”.**

* Presented at International conference on cognitive & intelligent computing (ICCIC), 2023.
* Formulated and validated machine learning algorithms for accurate diagnosis.

**“MEDICONNECT: A Symptom-Based Medicine Prediction System using Natural Language Processing”.**

* Published in International journal of intelligent systems technologies and applications (IJISTA), 2024.
* Implemented NLP system for symptom analysis and medication prediction, integrating real-time pharmacy services.

**EDUCATION**

**Chaitanya Bharathi Institute of Technology** *CGPA: 7.9*

*B.E(AI&DS) (06-12-2020 – 16-06-2024)*

**Narayana Junior College** *Percentage: 94.9*

*INTERMEDIATE(MPC) (01-04-2018 – 01-03-2020)*

**Narayana Concept School**  *GPA: 9.5*

*10th (SSC) (01-04-2017 – 01-03-2018)*

**ACHIEVEMENTS**

* Certified President of Chaitanya Laasya (2023-24).
* Expressway to Data Science: Python Programming, University of Colorado Boulder (via Coursera) – Jun 2025 (Covers Python, Pandas, NumPy, Matplotlib, Seaborn)

[Verify Certificate] - ( <https://coursera.org/verify/specialization/GCT6AA9J3CE6> )

**EXTRA & CO-CURRICULAR ACTIVITIES**

* Organized and competed in annual cricket, volleyball, and badminton tournaments, achieving a 40% increase in team participation, enhancing team collaboration and morale through strategic planning and communication.
* Strengthened team collaboration through strategic planning and inclusive leadership.