ONAAMIKA SADGURU

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Summary

Aspiring Data Analyst with a solid Computer Science background and hands-on experience in SQL, Google Sheets, Looker Studio, Python (pandas), and dashboarding. Skilled at data cleaning, exploratory analysis, ETL pipelines, and converting business questions into measurable metrics; comfortable presenting findings to non-technical stakeholders.Experienced building end-to-end analytics pipelines, writing scalable SQL/BigQuery queries, and creating stakeholder-ready dashboards to drive actionable insights and monitor data quality.Strong attention to anomaly detection, validation checks, and reproducible documentation to ensure trustworthy results. Collaborative team player with excellent communication, problem-solving, and time-management skills; eager to balance training with project work and willing to relocate as required.

Education

B.Tech in Computer Science and Engineering (AI & ML)   **2021 − 2025**
Institute of Aeronautical Engineering, Hyderabad
CGPA: 8.04

Class XII (Intermediate)   **2019 − 2021**
Sri Chaitanya Junior College, Hyderabad
Percentage: 86.8%

Class X (SSC)   **2019**
Bhashyam High School, Hyderabad
CGPA: 8.3

Experience

- **AI-ML Virtual Internship, Google (Remote)**   **January 2024 − February 2024**
  - Processed large datasets (50,000+ records) using Python and SQL to extract actionable insights.
  - Developed and fine-tuned a machine learning model for customer segmentation, achieving 85% accuracy.
  - Automated data processing workflows, reducing analysis time by 60% through optimized Python scripts.
  - Conducted independent research on model interpretability, improving feature importance analysis and reducing bias in predictions.
  - Compiled structured reports on key findings, helping refine future AI-driven marketing strategies.

- **AWS Cloud Computing Intern, NSIC (Remote)**   **July 2023 − August 2023**
  - Built and optimized cloud-based data solutions using AWS (EC2, RDS, S3) for high-efficiency data storage and retrieval.
  - Configured CloudWatch alerts and automated scaling policies, reducing system downtime by 35%.
  - Implemented automated backup strategies with versioning in S3, ensuring 100% data recovery success in test scenarios.
  - Developed detailed technical documentation, streamlining deployment and maintenance of cloud infrastructure.

Projects

- **ClusterIQ: Intelligent Customer Segmentation & Fraud Detection**
  - Ingested and preprocessed 10,000+ customer records, engineered RFM and engagement features to enable cohort analysis.
  - Built K-Means segmentation (elbow/silhouette) and hybrid anomaly detection (Isolation Forest + DBSCAN); validated via cohort uplift — +30% campaign conversions, -18% fraud losses.
  - Tech: Python (pandas, NumPy, scikit-learn), Matplotlib, Seaborn; produced stakeholder notebooks and summary reports.

- **Live Fantastic**
  - Designed an automated ETL and reporting pipeline consolidating event registration and participation data, cutting manual analysis time.
  - Implemented SQL aggregations, interactive dashboards and RESTful APIs supporting 500+ concurrent users; notification workflows improved communication efficiency by 40%.
  - Tech: Python, SQL, JavaScript (APIs), dashboarding tools, Git; authored docs and trained 20+ coordinators (90% adoption).

- **ML-Powered Drowsiness Detection — Safety Analytics**

- Engineered a real-time video pipeline (frame extraction, face/eye detection, feature engineering) processing 100,000+ frames/day.
- Trained and tuned models with temporal smoothing to achieve 92% accuracy; integrated real-time alerts and incident dashboards for safety teams.
- Tech: Python, OpenCV, SQL, Tableau; deployed low-latency inference and monitoring for reliable alerting.

- **Hyperparameter Optimization for Leaf Disease Segmentation**
  - Built a deep-learning segmentation pipeline with hyperparameter tuning, ensembles, extensive augmentation, and class-balancing for multiple plant species.
  - Used cross-validation and early stopping to avoid overfitting, delivering a 15% improvement in segmentation metrics on holdout sets.
  - Tech: TensorFlow/Keras or PyTorch, OpenCV, scikit-learn; production-ready training and evaluation pipelines.

Certifications

- Microsoft Certified: Data Scientist Associate Associate, Microsoft
- Microsoft Certified: Fabric Analytics Engineer Associate, Microsoft
- Oracle Certified Foundations Associate
- Salesforce Certified AI Associate
- Google Project Management Professional Certificate
- Oracle Cloud Infrastructure AI Foundations Associate
- Machine Learning for All - University of London
- Foundations of Cybersecurity - Google
- Azure Cognitive Services - Microsoft

Skills

Technical Skills: Product Management, Business Analysis, Agile Methodologies, UI/UX, SQL (SELECT, JOIN, GROUP BY, aggregations), Python (pandas, numpy, Jupyter Notebooks), C Language, R Language, Generative AI, LLMs, Data Cleaning Wrangling, Data Visualization, Statistical Analysis, A/B Testing (basic hypothesis testing), Machine Learning, Deep Learning, Natural Language Processing (NLP), HTML, CSS, Database Management Systems, Software Development, ETL concepts, Data Lifecycle Quality, Anomaly Detection

Tools Platforms: Figma, GitHub, MATLAB, Google Workspace (Gmail, Docs, Sheets), Looker Studio (Google Data Studio), BigQuery, Microsoft Excel, Tableau, Power BI, AWS, GCP, Microsoft Azure, Cloud Computing, Automation, Performance Optimization, Business Intelligence Tools, SQL clients (MySQL, PostgreSQL), Jupyter / Colab, Reporting Dashboarding platforms

Analysis Reporting: Business Intelligence, Exploratory Data Analysis (EDA), Data Validation Quality Checks, Custom Analysis Insights, Dashboard Development, Reporting Automation, Technical Documentation, Knowledge Sharing Runbooks, User Story Refinement, Sprint Planning, Stakeholder Presentations, Roadmap Development, Translating business questions to measurable metrics, Quantifying business impact

Soft Skills: Stakeholder Management, Cross-functional Collaboration, Problem-Solving, Decision-Making, Clear Written Verbal Communication, Leadership, Product Strategy, Team Coordination, Learning Agility, Ability to navigate ambiguous tasks independently, Time Management, Attention to Detail, Adaptability, Critical Thinking

Publications

- **Hyperparameter Optimization for Leaf Disease Segmentation**   **November 2024**
  - Developed an advanced machine learning model for precise leaf disease diagnosis by optimizing hyperparameters and integrating ensemble techniques like bagging, boosting, and stacking.
  - Fine-tuned learning rates, batch sizes, and network architectures, improving segmentation accuracy and model robustness.
  - Achieved a 17% increase in segmentation performance through adaptive learning rate scheduling and advanced augmentation techniques.
  - Implemented cross-validation and regularization techniques to enhance generalization across diverse plant species.
  - Presented findings on optimization strategies and their impact on precision agriculture at an international conference.