

MOOLA CHANDAN REDDY

Data Analyst · Data Scientist · Business Analyst · AI & ML Enthusiast
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PROFESSIONAL SUMMARY

Results-driven Data Analyst and aspiring Data Scientist with hands-on experience building end-to-end ML pipelines, NLP systems, and executive-grade BI dashboards. Processed 1,398+ real-world documents through a self-engineered unsupervised learning system using transformer embeddings and agglomerative clustering. Delivered Power BI and Tableau dashboards adopted by non-technical stakeholders for data-driven decision-making. Currently advancing expertise in deep learning, NLP, and model deployment through a structured Data Science & AI programme. Seeking roles in data analytics, data science, business intelligence, and AI where I can translate complex datasets into measurable business outcomes.

TECHNICAL SKILLS

Languages: Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow), SQL, HTML

Databases: MySQL, MongoDB, Query Optimisation

BI & Visualisation: Power BI (DAX), Tableau, MS Excel, Google Sheets

ML & AI: Supervised & Unsupervised Learning, NLP, Transformer Embeddings, Deep Learning, Clustering, Regression, Classification

Core Techniques: EDA, Feature Engineering, Data Cleaning, Pipeline Design, Statistical Analysis, Data Storytelling

Tools & Env: Jupyter Notebook, Google Colab, VS Code, Git, MS Office Suite

Soft Skills: Business Acumen, Stakeholder Communication, Problem Solving, Analytical Thinking

PROJECTS

Automated News Event Discovery & Timeline Reconstruction

Dec 2025 – Feb 2026

Python · Sentence-BERT · Agglomerative Clustering · NLP · Scikit-learn · Transformer Embeddings

- Engineered an end-to-end unsupervised ML pipeline that clustered 1,398 real-world news articles into coherent event groups, eliminating 100% of manual labelling overhead.
- Applied Sentence-BERT transformer embeddings for semantic similarity — outperforming keyword-based approaches on cluster coherence benchmarks.
- Designed agglomerative clustering logic to detect event co-occurrence patterns across high-volume article streams, validated using Silhouette Score and Davies-Bouldin Index.
- Built interactive chronological timelines enabling stakeholders to trace event narratives without reading source articles, reducing time-to-insight significantly.

Executive Sales Performance Dashboard — Power BI

Apr 2026

Power BI · DAX · Time-Series Forecasting · Data Cleaning · EDA · Excel

- Designed an executive-grade multi-page Power BI dashboard analysing 3 years of global sales data with KPI cards, filled maps, and revenue combo charts by product category.
- Engineered a 6-month revenue forecast using time-series modelling — enabling proactive business planning and senior stakeholder decision support.
- Built a granular Order Details intelligence page with interactive slicers for region and category, enabling non-technical users to self-serve insights without analyst involvement.

VIRTUAL EXPERIENCE & SIMULATIONS

Data Visualisation Analyst — Job Simulation | Tata Group via Forage

Jun 2025

- Simulated a Fortune 500 consulting engagement: designed executive-ready dashboards communicating complex business insights to C-suite stakeholders.
- Formulated strategic analytical questions ahead of senior leadership sessions, demonstrating commercial awareness beyond technical execution.
- Aligned visual outputs to organisational KPIs, practising data storytelling over chart-building — resulting in decision-ready deliverables.

Data Analytics & Forensic Technology Analyst — Job Simulation | Deloitte via Forage

Jun 2025

- Completed data analytics and forensic technology simulation modelling, real-world data investigation workflows.
- Applied structured analytical reasoning to identify anomalies and patterns in business datasets, mirroring consulting-grade analysis methodologies.

EDUCATION

Bachelor of Commerce — Computer Applications

Avinash College of Commerce, Hyderabad

Oct 2022 – Apr 2025

Relevant Coursework: Data Analytics, Database Management Systems, Business Statistics, Computer Applications

Intermediate — MEC (Mathematics, Economics, Commerce)

Narayana Junior College, Hyderabad

Jun 2020 – May 2022

CERTIFICATIONS & TRAINING

- ▶ **Machine Learning I** — Columbia University (Columbia+)
- ▶ **2025 Python Bootcamp | Learn Python Programming Masterclass** — Udemy
- ▶ **Data Visualisation: Empowering Business with Effective Insights** — Tata Group via Forage
- ▶ **Data Analytics & Forensic Technology Job Simulation** — Deloitte via Forage
- ▶ **Microsoft Excel** — Avinash Skill Development Centre
- ▶ **Fundamentals of HTML** — Great Learning

CONTINUOUS LEARNING

- Currently enrolled in a structured institute-based Data Science & AI programme covering deep learning, NLP, computer vision, and model deployment (in progress).
- Actively building expertise in MLOps, cloud analytics (AWS/Azure), and AI-driven decision systems to bridge model development and production deployment.
- Researching agentic AI systems and LLM fine-tuning to stay ahead of industry trends in applied AI.