Akash Chittimalla

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PROFESSIONAL OVERVIEW

Innovative data professional pursued a master's in data science at the University of North Texas with 2+ years of experience as a Data Analyst and Research Assistant, driving actionable insights, improving data quality, and optimizing workflows to support research and strategic business decisions.

EDUCATION

University Of North Texas, Denton, TX   **GPA**: 3.92/4.0
Master Of Science in Data Science   Jan 2024 – Dec 2025
Relevant Coursework: Data Visualization, Data Analytics, Data Mining, Data Modelling/ Management, Machine Learning, Deep Learning.

Jawaharlal Nehru Technological University, Hyderabad   GPA: 3.10/4.0
Bachelor of Engineering in Computer Science Engineering   Aug 2019 – Jul 2023
Relevant Coursework: Data Structures, OOPs, Database Management System, Operating System, Computer Networks, Software Engineering, Design and Analysis of Algorithms.

TECHINCAL SKILLS

ML Algorithms & Libraries	**:** Exploratory Data Analysis (EDA), Statistical Analysis, Statistical methods, ML, Deep Learning, Data Analysis, OpenCV, Tensor Flow, Numpy, Keras, Pandas, Matplotlib, Seaborn, RAG, AI Agents, Hugging Face, NLP, LangChain
Languages	**:** Python, SQL, PL-SQL, Linux, PySpark
Software Tools & IDEs	**:** Tableau, Power BI, Excel, Open Refine, AWS, GCP**,** GitHub, VS Code, Handling Large-Scale Datasets, Docker, Kubernetes
Databases	**:** Oracle, SQL Server, MongoDB
Data Engineering	**:** ETL, Data Warehousing, Data Cleaning, Transformation & Validation, Workflow Automation

PROFESSIONAL EXPERIENCE

Research Assistant, University of North Texas   May 2024 – Dec 2025

- Analysed academic and administrative data using SQL, improving research insights and decision-making efficiency by 20%.
- Cleaned, transformed, and validated datasets, reducing data inconsistencies by 25%.
- Optimized SQL queries to improve data retrieval and analysis performance by 30%.
- Developed Power BI dashboards and reports, increasing data visibility and usability by 25%.
- Conducted student data analysis to support research projects, improving outcome accuracy by 15%.

Data Analyst, ACEEC Innovation Labs, Remote   Jun 2021 – Dec 2023

- Performed end-to-end data analysis, cleaning, transformation, and validation using Python, SQL, and PL/SQL, improving data quality by 30%.
- Developed and optimized SQL queries and ETL workflows with Airflow and PySpark, reducing query runtime by 40% and manual processing by 35%.
- Built interactive dashboards and reports using Power BI and Tableau, increasing reporting efficiency and actionable insights by 25%.
- Conducted exploratory data analysis (EDA) and statistical analysis to identify trends and patterns, improving decision-making efficiency by 20%.
- Managed and analyzed large-scale datasets (100K+ records), supporting research and business operations for accurate insights.

- Collaborated with cross-functional teams to translate analytics into strategic recommendations, boosting operational efficiency by 15%.

ACADEMIC PROJECTS

Bird Species Identification | CNN, Image Processing, Pandas, TensorFlow, HTML, CSS   Sep 2022 – July 2023
- Deployed CNN web app with custom pooling layers, achieving **80% accuracy**; published in IJCRT & IJSREM.
- Published a research paper in **IJCRT** and IJSREM.

COVID-19 Healthcare Provider Analysis | GCP, Open Refine, Tableau, Excel   Aug 2023 – Dec 2024
- Analysed provider data with GCP, OpenRefine, Tableau, identifying gaps and strengths in pandemic response.

Liver Order Disorder | ML, VS code, Data Cleaning & Wrangling   Jan 2024 – May 2024
- Built ANN model achieving **90% prediction accuracy** on medical datasets using Python, TensorFlow, and Pandas.

Scientific Carrier Counselling Software | ML, Web Development   Sep 2022- Jan 2023
- Developed psychometric-based app to evaluate student aptitude and provide career guidance.

CERTIFICATIONS

1. PCAP- Programming Essentials in Python
2. CCNAv7: Introduction to Networks

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

Smart India Hackathon 2022, Student Technical Team | Hyderabad, India
- Volunteered as a student technical team member during a hackathon event, offered assistances to the participants having technical issues in programming, troubleshooting code errors, debugging software, and providing guidance on various tools and technologies.