Durga Prasad Oduri

Kansas City, Missouri | durgaprasadoduri888@gmail.com | +1(913) 326-5600| LinkedIn | Portfolio | Github

EDUCATION

Master of Science in Computer Science – Data Science	**CGPA**	**3.75/4**
University of Missouri-Kansas City, MO, United States		*Expected 2025*
Bachelor of Technology in Electronics Communication and Engineering	**CGPA**	**3.65/4**
Gokaraju Ranga Raju Institute of Engineering and Technology, Hyderabad, Telangana, India		*Aug2016--Sept2020*

Professional Summary

Data Analyst with 4 years of experience specializing in turning complex data into actionable insights to drive business decisions. Proficient in SQL and Power BI for data extraction, cleaning, and visualization, enabling data-driven strategies. Skilled in Python, using NumPy, Pandas, Matplotlib, and Seaborn for advanced data manipulation and analysis. Experienced in managing MySQL, PostgreSQL, and MS SQL Server for efficient data retrieval and database management. Expertise in data modeling and statistical analysis to identify trends and patterns that inform key business strategies and improve operational efficiency. Committed to delivering high-quality insights that support business growth and decision-making.

Skills

Programming & Data Analysis: Python, SQL, R, Java
Machine Learning & AI: Scikit-learn, TensorFlow, Keras
Data Visualization: Tableau, Power BI
Databases: MySQL, MongoDB
Big Data & Cloud: Apache Spark, AWS (Basics)
Tools & Technologies: Selenium, Postman, Jenkins, JIRA

WORK EXPERIENCE

Tata Consultancy Services	**Aug 2020 - July 2023**

Data Analyst | Tata Consultancy Services (TCS)
Aug 2020 – Jul 2023
Client: Humana (Health Insurance)

- Data Cleaning & Preprocessing: Led the data preprocessing and cleaning initiatives for large-scale healthcare datasets, ensuring accurate and consistent data for analysis. Worked with complex health insurance data to address missing, erroneous, or outlier data points.
- Advanced Data Analysis: Conducted detailed statistical analysis on healthcare claims data, patient records, and coverage information using SQL and Python (Pandas, NumPy). Identified trends and patterns in healthcare utilization, claims frequency, and cost management, supporting business insights and decision-making.
- Data Visualization: Developed interactive dashboards and visual reports using Tableau and Power BI to visualize key health insurance metrics, claims analysis, and patient behavior insights, enabling business teams to track performance and identify areas for improvement.
- Business Intelligence (BI): Integrated multiple data sources, including claims databases and member information, into business intelligence platforms to provide real-time insights into policyholder data and claims trends.
- Data Reporting: Produced daily, weekly, and monthly reports for management and stakeholders, presenting insights on claim cost trends, policyholder retention, and service usage. Delivered actionable recommendations based on findings to improve operational efficiency.
- SQL & Database Management: Wrote complex SQL queries to extract and manipulate data from health insurance databases. Optimized database queries to improve reporting times and data retrieval efficiency.
- Cross-functional Collaboration: Collaborated with teams across IT, operations, and business departments to define requirements and deliver data-driven solutions tailored to Humana's business goals. Provided data analysis support for various departments, including customer service and actuarial teams.
- Automation of Data Tasks: Automated key data workflows, reducing manual data entry and analysis efforts by 40%. Streamlined the claims analysis and reporting process, increasing operational efficiency.
- Data Modeling & Predictive Analytics: Assisted in developing predictive models to forecast claims trends and policyholder behaviors using machine learning techniques, contributing to more effective cost management strategies for the client.
- Data Governance & Quality Control: Ensured compliance with healthcare regulations (HIPAA) and maintained high standards for data integrity and security across all analytical processes.
- Continuous Learning & Development: Regularly attended workshops on data analysis tools and healthcare industry trends, staying updated on the latest advancements in data analytics and health insurance regulations.

Suntek Corp Solutions Private Limited   Hyderabad, India
Data Analyst- Intern   *Dec 2018 - Aug 2020*

- Data Collection & Management: Collected and organized student data, including performance metrics, attendance records, and assessment results, ensuring accuracy and consistency for analysis.
- Weekly Performance Analysis: Analyzed weekly performance data of students, tracking progress, identifying trends, and providing actionable insights to help improve student outcomes. Used tools like Excel and SQL for data manipulation and reporting.
- Data Cleaning & Preprocessing: Cleaned and preprocessed student data by addressing missing values, outliers, and inconsistencies, preparing datasets for further analysis and visualization.
- Data Visualization: Created visual reports and dashboards using Excel and Tableau, presenting student performance data to faculty and management to monitor academic progress and performance trends over time.
- Trend Identification & Reporting: Identified patterns in student performance, highlighting areas for improvement, and shared reports with educators to aid in personalized learning strategies and interventions.
- Performance Prediction: Assisted in building predictive models to forecast student performance based on historical data, contributing to better planning of academic resources and support.
- Collaboration with Faculty: Collaborated with faculty and academic teams to understand requirements, ensure data accuracy, and support the design of customized reports that tracked student development.
- Automation of Reports: Automated the process of generating weekly performance reports, significantly reducing manual effort and ensuring timely delivery of insights.
- Data-Driven Recommendations: Provided insights and recommendations based on data analysis to improve student engagement and performance, supporting the academic team in decision-making.
- Reporting & Presentations: Created detailed performance reports and delivered presentations to internal teams, helping to improve the academic performance tracking system for the institution.

PROJECTS

Data Analyst at US based Health Insurance Company   Jan*2021-July 2023*

- Developed and delivered 20+ ad hoc reports on healthcare quality metrics (e.g., patient satisfaction, claims turnaround) using SQL, Excel, and Power BI, reducing report preparation time and enabling faster leadership decision-making.
- Processed and cleansed 1M+ daily records from EHR/EMR systems using SQL and Python (Pandas), ensuring HIPAA compliance and improving data accuracy by **15%** for regulatory reporting.
- Conducted trend analysis on patient care data using Python (Pandas, Matplotlib**)** to uncover operational inefficiencies, enhancing claims processing efficiency by 10%.
- Validated ETL data pipelines for quality reporting using SQL and Power Automate, achieving 99% data accuracy, critical compliance and regulatory audits.
- Extracted complex healthcare datasets from AWS Redshift and EHR systems using advanced SQL **queries**, delivering actionable insights that improved quality metrics by 10**%.**
- Built interactive Power BI dashboards to visualize patient care KPIs, contributing to an **8% boost in patient satisfaction** through timely, data-driven interventions.
- Deployed healthcare data into AWS Redshift, optimizing EMR/EHR storage and reducing query execution time by **40%**, ensuring scalable and secure data handling.
- Enhanced ETL workflows using SQL Server and SSIS, cutting daily data processing time by **25%** and improving data availability for real-time reporting.

A New 5 - Layer Model Approach for Pneumonia Detection   *Jan 2020 - May 2020*

Designed and developed a Kera's based deep learning model for predicting pneumonia based on X-ray image inputs,achieving an accuracy rate of 98%.

CERTIFICATIONS

Hands-On Power BI Training For Data Science- Certificate

ACHIEVEMENTS

- Recognized for excellence in research and received the Best Paper Award for presenting "A New 5-layer Model Approach for Pneumonia Detection" in the Machine Learning Forum - Paper Link
- Best Paper Award at ICACECS - certificate