

NISCHAY SAI CHERUKURI

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EDUCATION

The George Washington University Master of Science in Data Science

Washington, DC
May 2024

Relevant Coursework: Data Mining, Data Warehousing and Visualization, Machine Learning, Cloud Computing, Deep Learning

Malla Reddy College of Engineering Bachelor of Technology in Computer Science & Engineering

Hyderabad, India
July 2022

Relevant Coursework: C, C++, Database Management Systems, Data Structures and Algorithms, Java, Operating Systems

TECHNICAL SKILLS

Programming Languages & Tools	: Python, R, MySQL, GitHub, Git, ETL, PySpark, TensorFlow, Hadoop
Machine Learning & AI	: Data Cleaning, Statistical Modelling, Deep Learning, LLM's, LangChain
Visualization	: Tableau, Plotly, Matplotlib, Seaborn, MS Excel
Cloud Computing and Databases	: Amazon Web Services (AWS), Azure, MySQL, MongoDB
Expertise	: Statistical Analysis, Data analysis and pre-processing, Data visualization, Data Modeling, Time Series Analysis, Object Detection, Natural Language Processing

WORK EXPERIENCE

The World Bank Group, Washington, D.C — Data Science Consultant January 2024 - Present

- Assessed and visualized EU rail/road traffic flows using Eurostat data in NUTS 2 regions.
- Developed an interactive dashboard for country-level EU rail and road transport data analysis.
- Applied Machine Learning and econometrics for predicting railway stock prices and demand elasticity, aiding transport sector strategy.
- Collaborated in a team to propose emission reduction solutions aligned with the EU Green Deal, emphasizing transportation sector innovation and tech adoption.

The George Washington University, USA — Student Communications Assistant March 2023 - Present

- Managed and optimized content across GW Engineering and departmental websites using HTML and Drupal.
- Implemented SEO strategies, achieving a 7% increase in overall website score and enhancing key metrics.
- Analyzed website data to inform content strategy and align with user behavior trends.
- Collaborated with the communications director and academic staff to ensure cohesive communication strategies.

GTCUBE — Data Science Intern May 2021 – September 2021

- Developed and optimized machine learning models for categorizing universities, enhancing student application recommendations, and improving accuracy by 20%.
- Leveraged predictive analytics for sales trend insights, boosting sales by 25% and guiding course and pricing strategy.
- Reduced data processing times by 15% by migrating workflows to AWS and optimizing resources.

TECHNICAL PROJECTS

SudoSolveAI: Dynamic Sudoku Deciphering with Deep Learning | OpenCV, TensorFlow ([Link](#)) July 2023

- Achieved 98% accuracy in video-based real-time digit recognition and Sudoku grid extraction with a custom CNN, using TensorFlow and OpenCV.
- Efficiently solved Sudoku puzzles in real-time, enhancing user interaction and solution verification by overlaying solutions on live video grids with a robust backtracking algorithm and OpenCV.

BioMedSeqNet: Advanced NLP Strategies for Sentence Classification | TensorFlow, NLP ([Link](#)) December 2022

- Achieved 80% accuracy in classifying PubMed 200k RCT abstract components (Objective, Methods, Results, Conclusions) with advanced NLP models.
- Pioneered NLP models using LSTM, bidirectional layers, and tribrid embeddings for precise biomedical abstract classification.

Smart Health Predictor: A Multifaceted Disease Analysis and Forecast Model | Python ([Link](#)) March 2022

- Developed machine learning models to predict with 85% accuracy the occurrence of diseases, including cancer, diabetes, and heart problems, thereby streamlining diagnostics, and fortifying preventative healthcare strategies.
- Created an efficient ETL pipeline for health data, enabling quick and precise real-time disease prediction analytics.

PUBLICATIONS

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| • A Detailed Examination of MongoDB and MYSQL (Paper Link) | October 2021 |
| • A Comprehensive Study of Various Sorting Algorithms (Paper Link) | August 2021 |
| • A Brief Survey and Examination of Various Searching Techniques (Paper Link) | July 2021 |

CERTIFICATIONS

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| • AWS Certified Solutions Architect – Associate (Link) | October 2023 – October 2026 |
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