

# BHARATH GENJI MOHANARANGA

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## EDUCATION

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**MS in Data Science**, The George Washington University  
**GPA: 3.7**

Aug 2023 - May 2025

**Btech Computer Science and Engineering**, SRM Institute of Science and Technology  
**GPA: 3.4**

Jul 2017 - Jun 2021

## RELEVANT WORK EXPERIENCE

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### Research Assistant

George Washington Institute of Public Policy

May 2024 - Aug 2024

*Washington, DC*

- Engaged in a pioneering project to extract skills from NLx data and recombine them into operational skills concepts using a custom application built around the LAiSER open-source library.
- Tasked with developing an automated tool to facilitate the repeatable process of analyzing job data at scale for industry sectors in Texas.
- Focused on generating valuable policy insights by providing a clean, ready-to-use dataset for generating unbiased skills insights as part of a regular duty cycle.

### Graduate Teaching Assistant

George Washington University

Jan 2024 - May 2024

*Washington, DC*

- Assisting in preparing and organizing lecture materials. Conducting laboratory experiments and ensuring a safe, educational environment.
- Providing academic support to students through office hours and one-on-one mentoring.
- Assisting in grading and offering constructive feedback on assignments and exams.
- Facilitating group discussions and collaborative learning activities. Handling administrative tasks such as maintaining student records and coordinating resources.

### Executive Cloud and Data Engineer

InfoCepts, Chennai, India

April 2023 - July 2023

- Orchestrated the integration of API with Azure SQL Server and AI analytics, enhancing data processes which boosted productivity by 50% and reduced operational costs.
- Standardized version control processes using Bitbucket, achieving a 20% reduction in code conflicts and improving code collaboration, leading project management with Agile to increase project efficiency by 15%.
- Supervised the development and implementation of three software products, executing unit testing and crafting technical documentation that enhanced coding best practices and coordinated bug bash sessions.

## TECHNICAL PROJECTS

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### Poker Rule Induction - Kaggle Competition

Jan 2024 - Jan 2024

- Employed advanced preprocessing and hyperparameter tuning with Python, Scikit-learn, TensorFlow, achieving scores above the competition baseline, illustrating predictive modeling and data handling skills relevant for data-driven analytics.

### NCAA Tournament Prediction — ITC & GWU AI/ML Bracket Challenge

Jan 2024 - Mar 2024

- Conducted exploratory analysis on 21 years of NCAA data, unveiling trends with advanced visualizations.
- Pioneered advanced analytical methodologies, significantly enhancing model accuracy, outperforming traditional prediction systems.
- Engineered a predictive model XGBoost with a Brier score of 0.175866, achieving top 2.2% ranking in national AI challenge skillfully navigating feature selection and model optimization.

## ACCOMPLISHMENTS

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- Conceptualized and developed an innovative product, leading to recognition as the **First Runner-up** at **InfoCepts** for pioneering content at **E360 booth**.
- Triumphed as winners of the **ITC & GWU AI/ML Bracket Challenge** with an exceptional overall score of **1370**, through strategic data-driven methodologies and innovative application of machine learning algorithms.