# KRISHNA TEJA JILLELAMUDI

ktjillelamudi@gmail.com | 812-699-7871 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## EDUCATION

**Indiana University Bloomington**, Bloomington, IN.                                              August, 2022 - May, 2024 (Expected)
*Master of Science*, Data Science.

**SR Engineering College**, Warangal, India.                                              May, 2017 - July, 2021
*Bachelor of Technology*, Computer Science and Engineering.

## WORK EXPERIENCE

**Research Assistant**                          *Indiana University Bloomington*                          January, 2024 - Current

- Implementing prompt engineering techniques to standardize institution names in federal grant data, streamlining the data cleaning process and enhancing overall efficiency for the project, "Leveraging GPT Models to Enhance Federal Grant Data."
- Performing the fine-tuning of GPT models, enabling automated correction of textual metadata errors and inconsistencies in grant data, showcasing the potential of large language models for improving data quality in federal grant analysis.

**Graduate Teaching Assistant**                          *Indiana University Bloomington*                          January, 2024 - Current

- Mentored 90 students on machine learning fundamentals, implemented algorithms in Python, held office hours, and led lab sessions focused on reinforcing theoretical course concepts for the course, "CSCI-B 455 Principles of Machine Learning."

**Data Scientist**                          *Omdena*                          September, 2023 - October, 2023

- Performed data collection by crawling 25,000+ job descriptions from diverse industries and regions to create a robust dataset for training machine learning models to detect gender and racial bias.
- Developed LSTM, BERT, DistilBERT, and RoBERTa models and evaluated their performance in accurately classifying biased versus neutral language in job postings.

**Research Assistant**                          *Indiana University Bloomington*                          January, 2023 - May, 2023

- Developed interactive Tableau dashboards for Grants Map, facilitating detailed exploration of foundation funding, and created activity area-based visualizations for insights on top foundations and donation patterns for the project, "Visualisation and Network analysis of U.S. Foundations and Grantees data."
- Contributed to network analysis by identifying anomalies, creating Jupyter Notebooks for consistent analysis, and summarizing relevant network econometrics papers for future research.

**Software Developer**                          *Tata Consultancy Services, India*                          July, 2021 - July, 2022

- Programmed an internal web application for a healthcare client using Springboot. Explored and implemented various attributes and data preparedness strategies crucial for Mainframe to Cloud migration.

**Data Science Intern**                          *Bennett University, India*                          May, 2019 - June, 2019

- Worked on a 25,331 image dataset, and utilised keras data augmentation techniques to address a set of 8 imbalanced classes.
- Conducted experiments with 5 machine learning models, by hyper-parameter tuning utilizing *NVIDIA DGX*.
- Published a research paper: ["Skin lesion analysis towards melanoma detection with deep neural networks."](#)

## TECHNICAL SKILLS

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| **Languages** | Python, R, C, Java, SQL. |
| **Tools** | Tableau, Google DataStudio, AbodeXD, Git, Heroku, Android Studio, Gephi, ChatGPT. |
| **Libraries** | Selenium, Beautiful Soup, Numpy, Scipy, Pandas, Scikit-learn, Matplotlib, Seaborn, Tensorflow, Keras, NetworkX. |

## PROJECTS

**Visualizing Civic Engagement - City of Bloomington**
The project analyzed and visualized civic engagement for Bloomington, Indiana using the comprehensive Open311 dataset. Through geospatial analysis and plotly dashboard visualizations, the project uncovered patterns, trends, and insights into civic requests and responses to inform urban planning and community engagement.
Keywords: *Python, folium, Data Visualisation.*

**Exploring Development Funds Flow**
A Network analysis project focused on exploring the flow of development funds using Official Development Assistance (ODA) data collected by the Organisation for Economic Co-operation and Development (OECD).
Keywords: *Python, Network Science, Community Detection, Gephi, NetworkX.*