

Rajanika Debnath

Chicago, Illinois | [LinkedIn](#) | +1 (971)275-7142 | rajanikadebnath30@gmail.com | [GitHub](#)

INTERNSHIP EXPERIENCE

T Systems

Pune, Maharashtra, India

AI Software Developer Intern

Jan 2023- June 2023

Project: Deep Learning and Large Language Models for T-Systems Data Platform Products

- **Data Optimization and Management:**
 - o DL cleans & documents data pipelines: Automates error detection/correction & generates data origin/purpose documentation using LLMs.
 - o Increased Data Quality. Achieved **95% accuracy** in data error detection
- **Data Insights and Automation:**
 - o DL automates report/visualization generation & LLM enables natural language data exploration.
 - o Reduced Report Generation Time and accomplished **75% faster** reporting.

Newgen Software Technologies

Noida, Uttar Pradesh, India

Software Development Intern

June 2022- August 2022

Developed and deployed ML models designed for mobile applications using deep learning modules.

- Mobile doc classification with pre-trained SSD-MobileNet V2 (TensorFlow API, Labeling, OpenCV) boosted app growth (**65%** usage), improved user experience with faster on-device processing with retention of **55%** (user retention), and privacy (**40%** potential user base growth) thanks to faster on-device processing.

Illinois Institute of Technology

Chicago, Illinois, USA

Data visualization Intern (Virtual)

September 2022- October 2022

Analyzed and visualized data to extract meaningful insights

- Leverage Python libraries (Pandas, NumPy, scikit-learn) for data analysis and Matplotlib/Tableau for visualizations to extract data insights that can boost efficiency (**10%**), improve decision-making (**20%**), and reduce project costs (**5%**) through clear communication.

PROJECTS

- **Assistive technology for deaf and dumb-** recognises sign language and translates it to someone who does not understand the sign language.
- **German credit analysis-** a prediction model that predicts if a person has good or bad credits on the basis of various factors such as loan history, salary, family size, etc.
- **Brain tumor detection model-** recognises which type of a tumor a patient possesses.
- **Document classifier-** classifies to what class a document belongs to, eg, driving license, passport, etc.

EDUCATION

Illinois Institute of Technology

Chicago, Illinois, USA

Masters in Computer Science

May 2025

Manav Rachna International Institute of Research and Studies

Faridabad, Haryana, India

Bachelors in Technology - Computer Science

June 2023

SKILLS

- **Technical Skills**
 - o Data Analysis and Visualization: R, Python, SQL, TensorFlow, Microsoft BI, Tableau
 - o Data Mining and Modeling: Predictive modeling, data mining, statistical analysis
 - o Data Management: Data collection, cleaning, and validation
- **Soft Skills**
 - o Communication: Data storytelling, clear & concise explanations (written/verbal/presentations)
 - o Analytical Thinking: Ability to extract meaningful insights from large and complex datasets
 - o Machine Learning: Familiarity with statistical techniques and machine learning algorithms