

# BHARGAV KANTHETI

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## SKILLS

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Python, SQL, PyTorch, Dask, PySpark, SKlearn, Seaborn, React, D3, Tableau, Statistical Analysis, Data Visualization.

## EXPERIENCE

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### NYC Administration for Children's Services

New York, NY

*Research Scientist (Consultant)*

*Sep 2024 – Present*

- Reviewed a \$1M vendor proposal for a legacy service rebuild and devised a simpler \$0 in-house end-to-end architecture that reduced external dependency while paving the way for scalable, data-driven solutions.
- Diagnosed legacy model inefficiencies and built a hierarchical recommendation system that enhanced recommendation quality by 35–55% across all classes, improving rehabilitation service matching quality.
- Designed user-friendly telemetry dashboards that translated complex ML insights into actionable intelligence for non-technical stakeholders across all orgs.

### Columbia Engineering (Earth Institute)

New York, NY

*Capstone Research Assistant*

*Sep 2024 – Dec 2024*

- Researched transformer embedding techniques applied to over 70 years of climate data for latent anomaly detection, laying the foundation for novel environmental ML applications.
- Devised an autoencoder-based reversible data compression technique that reduced storage requirements by 60%.

### NYC Administration for Children's Services

New York, NY

*Summer Graduate Intern*

*Jun 2024 – Aug 2024*

- Developed a timeseries forecasting model that analyzed historical patterns to predict staffing needs with 80% accuracy measured over 3 quarters, identifying potential resource gaps before they affected service delivery.
- Designed explainable AI dashboards for the commissioner of ACS that translated ML applications in child welfare to the California leadership summit.

### Columbia Medical Center (Pathology Lab)

New York, NY

*Research Assistant*

*Jun 2024 – Aug 2024*

- Analyzed system logs to identify security and performance vulnerabilities, implemented an optimized ETL pipeline that improved system integrity while increasing processing capacity by 50%.
- Engineered a cross-platform, user-centric ETL workflow designer that captures and operationalizes spur-of-the-moment research ideas, enabling agile innovation.

### GITAM (CS Lab)

Visakhapatnam, IN

*Research Assistant*

*Aug 2022 – Apr 2023*

- Constructed a fine-tuned CNN architecture for Telugu language OCR, achieving 98% accuracy, initiating new research avenues for the language.
- Authored an intuitive Python library combining IBM Qiskit and Google Cirq to aid Quantum Computing adoption across campus and empowering research initiatives.

### Feynn Labs

Guwahati, IN

*Machine Learning Intern*

*May 2022 – Jul 2022*

- Conducted market segmentation analysis for local retail stores by leveraging transactions and inventory logs. Identified trends to reduce overstocking and enhanced targeted customer engagement by 20% for small businesses.
- Led a predictive analysis project to forecast market viability for an EV company in India. Integrated battery supply chain dynamics with stock volatility analysis, yielding projections awarded top honors among six competing teams.

## EDUCATION

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### MS in Data Science

New York, NY

*Columbia University*

*Aug 2023 – Dec 2024*

### BTech in Computer Science and Engineering

Visakhapatnam, IN

*Gandhi Institute of Technology and Management*

*Jul 2019 – Apr 2023*

## PROJECTS

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**5ki**: Built a unique RAG technique for quantized LLMs and digested Wikipedia to demonstrate viability. [\[blog\]](#)

**intxr.net**: Developed an Actor-Critic Reinforcement LLM model that creates a repository of free browser software. [\[blog\]](#)