Jithendra Puppala
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Education

New York University — New York, NY
M.S. in Computer Science — Aug 2025 – May 2027

National Institute of Technology Karnataka (NITK Surathkal) — Surathkal, Mangaluru, India
Major: B.Tech, Computer Science Engineering — July 2019 – May 2023

Skills

- **Programming & Data Processing** : Python, SQL, Pandas, NumPy, Time-series Analysis, C
- **Machine Learning & Tools** : Scikit-learn, TensorFlow, Computer Vision, ARIMA, Deep Learning
- **Data Visualization & Deployment** : Django, Matplotlib, Seaborn, REST API, Jupyter, Docker, Git, VIM, Anaconda
- **Workflow & Platforms** : Google Workspace, Notion, Trello, Linux, GitHub. Cloud (AWS, GCP), HuggingFace

Experience

Jio Platforms Limited — Bengaluru, Karnataka, India
Data Scientist — June 2023 – July 2025
- Built and deployed machine learning models for cattle heat and health detection using time-series and ensemble techniques, improving **precision by 11%** and **recall by 14%**.
- Contributed to a **4x YoY revenue growth** (approximately ₹2 Crore) by integrating models into production systems deployed on IoT-based JioGauSamriddhi Cattle monitoring devices.
- Developed and exposed **Flask-based REST APIs** to serve real-time predictions on live production servers.
- Engineered time-series features using **ARIMA residuals** to enhance accuracy and interpretability.
- Optimized cattle activity detection pipeline execution, achieving a **20x** improvement in processing speed and increasing model accuracy from 89% to 93% using **Butterworth filters**.
- Collaborated with analytics and frontend teams to integrate model outputs by developing operational dashboards, resulting in **10x** faster decision-making for field agents.

Accenture — Bengaluru, Karnataka, India
Advanced App Engineering Analyst - Intern — June 2022 – July 2022
- Conducted a comprehensive study on **Observability** to enhance system **monitoring** and performance.
- Presented findings to a team of **25+** engineers, highlighting best practices for system effective system monitoring.

Projects

MixMatch on Custom Dataset — Mar 2022 – April 2022
- Implemented semi-supervised learning technique MixMatch on a custom dataset.

Generic Library Management System (Django) — Aug 2021 – Dec 2021
- Built a web-based library management system using Django, featuring book search, issue tracking, user authentication, and admin dashboard controls. Deployed locally using **SQLite, Bootstrap for UI, and Git** for version control.

Leadership & Achievements

- Finalist-Harvard Crossroads Emerging Leaders Program (CELP) - 2021
  Selected among top **114** of **10,000+** global applicants for a leadership program organized by Harvard University.
- JEE Mains Rank: **2683** | JEE Advanced Rank: **6111** | All India ranks among **1,150,000** participants.
- Campus Director – Millennium Fellowship (UNAI & MCN) for NIT Karnataka.
  Led SDG-aligned civic projects; mentored 15+ fellows; coordinated workshops and campus-wide engagement.
- Webinar Host – Competitiveness Mindset Institute Designed and facilitated student leadership webinar for **3** NIT campuses (NIT Karnataka, NIT Surat, NIT Rourkela) with **over 300 participants**; coordinated content and outreach.
- Cadet – National Cadet Corps (NCC)
  Completed leadership and civic training; collaborated in community-driven programs and campus initiatives.