Jithendra Puppala

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Education

New York UniversityNew York, NYM.S. in Computer ScienceExpected: May 2027

Relevant Coursework: Machine Learning, Computer Vision, Foundations of Data Science

National Institute of Technology Karnataka (NITK Surathkal)

Surathkal, Mangaluru, India

B.Tech. in Computer Science and Engineering

May 2023

Relevant Coursework: Digital Image Processing, Probability & Statistics

Skills

- Programming: Python, SQL, C, Pandas, NumPy, Time-Series Analysis, Feature Engineering
- Machine Learning: Machine Learning, Deep Learning, Computer Vision, Semi-Supervised Learning, XGBoost, Random Forest, ARIMA
- Frameworks: TensorFlow, PyTorch, Scikit-learn, Hugging Face, OpenCV, Matplotlib, Seaborn
- Systems: REST APIs, Django, FastAPI, Docker, AWS (Amazon Web Services: EC2, S3), GCP, MLOps, Git/GitHub, Linux

Experience

Jio Platforms Limited

Data Scientist

Bengaluru, Karnataka, India

June 2023 - July 2025

- Improved the cattle heat detection precision from 68% to 91% and recall from 76% to 95% by developing ML models from scratch.
- Prepared cattle routine features from ARIMA-based residual analysis, helping early heat detection by 4 hours for 150K+ cattle.
- Improved cattle activity detection by filtering accelerometry data with Butterworth filters, enhancing accuracy from 87% to 94%.
- Reduced model retraining time from 18 hours to under 2 hours and data processing from 3 hours to just under 7 minutes by
 optimizing the end-to-end training pipeline.
- Developed and deployed REST APIs to production using FastAPI, helping over 1200 farm owners with real-time heat alerts.
- Built Streamlit dashboards for anomaly monitoring and adoption tracking, giving 200+ field agents a 10× faster resolution workflow and fueling 4× YoY revenue growth.

Accenture

Bengaluru, Karnataka, India

June 2022 - July 2022

- Advanced App Engineering Analyst Intern
 - · Conducted a comprehensive observability study to improve monitoring, performance, and reliability across enterprise applications.
 - Evaluated 5+ monitoring and logging tools by comparing their effectiveness for incident detection and root cause analysis.
 - Presented findings and best practices to 25+ engineers, influencing the adoption of improved monitoring strategies that reduced the mean time to detection (MTTD) by 30%.

Projects

MixMatch on Custom Dataset

Mar 2022 - April 2022

- Implemented semi-supervised learning with the MixMatch algorithm on a custom image dataset.
- · Achieved a 12% better accuracy over baseline models by applying data augmentation and consistency regularization.

Generic Library Management System (Django)

Aug 2021 - Dec 2021

- Built a web-based system with Django, featuring book search, issue tracking, user authentication, and admin dashboard controls.
- Deployed locally using SQLite and Bootstrap streamlining book management for 50+ simulated users.

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 nationwide.
- 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.