

Nandan Keshav Hegde

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EDUCATION

MICHIGAN STATE UNIVERSITY

East Lansing, MI

*Master of Science in Computational Data Science - MSDS (STEM Designated) | GPA: 4.0/4.0 (Top 1% of Class) | GRE 321/340*

09/24 - 05/26

- Co-founded [Rarepeti.com](#), an e-commerce initiative aimed at connecting regional vendors and empowering local communities back in India
- Built an end-to-end Natural Language Processing and Generation small-scale cuisine generation and predictive analytics and a Statistical approach to Recommendation System showcasing hands-on implementation of full-stack data applications

MANIPAL UNIVERSITY, MANIPAL INSTITUTE OF TECHNOLOGY

Manipal, India

*Bachelor of Technology in Electrical and Electronics Engineering | GPA: 8.1/10.0 (Top 10% of Class)*

11/19

- Awarded the prestigious AICTE Scholarship for academic performance and merit throughout the undergraduate program
- Served as Treasurer and President of the MIT Chess Club, Manipal

RESEARCH | PROFESSIONAL DEVELOPMENT

- Advancing Causal Video Question Answering:** Developed Transformer-based deep learning models for accurately analyzing and interpreting multi-modal video-text data, enhancing AI-driven understanding of complex video content and context.
- Michigan Farm to Institute (MFIN):** Conducted comprehensive data-driven analyses, generating actionable insights to support effective outreach strategies and foster institutional adoption of locally sourced food systems.
- Foundational Degree in Data Science and Programming, IIT Madras:** Selected among the first cohort to complete an innovative online degree covering foundational concepts in Data Science, Machine Learning, and Programming.

SKILLS

- Programming languages and scripting:** Python, R Programming, Awk, Bash, SQL
- Machine Learning and AI:** Statistical Modeling, Time Series Analysis, Demand Forecasting, Pytorch, TensorFlow, Natural Language Processing(NLP), and Generative AI (NLG)
  - Cloud & Big Data Technologies:** Azure Databricks, AWS Serverless, GCP Vertex AI, PySpark
  - Web Development & Application Frameworks:** Flask (Back-End), Vue.js, HTML, CSS (Front-End)
  - Data Tools & Platforms:** GIT(Version Control), Advanced Excel, MS PowerPoint, Database Management Systems
  - Analytical & Structured Thinking:** Tableau, PowerBI

INTERNSHIPS

EMERGENCE AI

Remote

*AI research intern*

05/25 - Present

Agent creating agent (ACA): Proactively collaborating with Agent Development teams to aid in research and building AI benchmarks for existing and under-development AI agents

Agentic AI Orchestration: Design blueprint for ACA integration to the main orchestrator that manages multiple agents for the enterprise workflows and measure the potential uplifts in the quality of the orchestrator

WORK EXPERIENCE

TREDENCE ANALYTICS SOLUTIONS PRIVATE LIMITED

Bengaluru, India

*Data Science Consultant*

06/23 - 07/24

- Promo Optimization & Pricing Simulator (Retail Domain): Led the development of a promo optimization framework, identifying key performance indicators and recommending schedules of promo types for SKUs selected for the POC stage.
- Promo Effectiveness Analysis (Retail Domain): Built a detailed promotional performance model to optimize baselines and gross lift, significantly reducing unproductive expenses by 25% and improving campaign ROI.
- Product/Item Matching (Retail Domain): Implemented an NLP-based pipeline for automated product matching, achieving 65% accuracy, saving over an estimated 300 manual hours annually, and streamlining catalog alignment.

INCEDO TECHNOLOGY SOLUTIONS LIMITED

Bengaluru, India

*Senior Data Scientist*

02/21 - 05/23

- Demand Forecasting (CPG Domain): Developed ML-driven forecasting models for supply chain optimization, improving accuracy by 10% and saving \$500K annually in inventory holding costs.
- Enterprise Data Service Workbench (Financial Services Domain): Built an interactive data platform to automate RFP workflows, increasing efficiency by 50% by enabling the ability to answer more requests comprehensively.
- Client Cohort Analysis: Designed segmentation models for investment behavior profiling, driving a 10% increase in RFP success rates and contributing to an additional \$500k in revenue every quarter
- Investment Director Track record (Financial Services): Built a Data-intensive Enterprise dashboard to track the key performance KPI’s of Investment Director’s portfolio makeup of both advisory and discretionary client type

ZS ASSOCIATES INDIA PRIVATE LIMITED

Pune, India

*Decision Analytics Associate*

01/20 - 01/21

- Survival Analysis (Life Sciences Domain): Implemented survival analysis models to predict therapy switches, reducing switch rates by 20% and improving client retention for pharmaceutical clients.
- New Patient Adoption Research (Life Sciences Domain): Built ML models predicting physician adoption likelihood, optimizing sales targeting, and reducing outreach costs by 30%, leading to an estimate of a \$1M increase in revenue.
- Market Mix Modelling (Life Sciences Domain): Automated regression frameworks reducing modelling timelines to 4 weeks and identifying top-performing marketing channels, driving a 15% improvement in ROI.

RECENT CAPSTONE PROJECTS

- Grocery Store App: Developed a server-side rendered web application enabling real-time inventory management and personalized grocery recommendations to enhance user experience.
- NLP - NLG Recipe Prediction and Generation: Designed a Natural Language Generation pipeline to predict and generate customized recipes based on user input and ingredient availability.
- Small-Scale E-Commerce Recommendation System: Implemented a statistical recommendation system tailored for e-commerce platforms to optimize product visibility and improve customer engagement.

PROFESSIONAL AND ACADEMIC TESTIMONIALS & RECOMMENDATIONS

- Academic and Professional references - <https://drive.google.com/drive/folders/1PFTTV8j2rLYstyRjaeCsBep2qOz6ir5k>
- Experience certificates: <https://drive.google.com/drive/folders/1Toscnl6bQXL4rzL0rvfqOkjPpCisDPG6?usp=sharing>