

Venkat Mohit Sornapudi

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With 3+ years of diverse industrial experience and strong mathematical foundation, I swiftly acquire new skills and solve complex problems independently. Adept at working with large datasets, design and train models, and optimize algorithms to improve accuracy and efficiency. I have 5+ years of Python experience, including 4+ years in data science. My interests include badminton, movies, music, and photography.

EDUCATION

M.Sc. Artificial Intelligence September 2021 – September 2023
Vrije Universiteit Amsterdam Amsterdam, Netherlands

Focused: NLP, Computer Vision, Reinforcement learning, Graph Neural Networks (GNNs)

Teacher Assistant: Deep Learning (MLP, RNN, CNN, LSTM, Generative models, GCN), Skills for AI (Logic, Calculus), Linear Algebra, Software Engineering, Information Management

Selected Projects: Low-resource Neural Machine Translation, Object detection, Structure from Motion, Face-swapping using GANs, Variational Autoencoder, Hate speech detection, Semi-supervised Node classification and Graph classification, Markov chain models, MCTS, MDP, Q-learning, Multi-step Forecasting, Bayesian Network

M.Sc. Physics and B.E. Manufacturing Engineering August 2014 – July 2019
Birla Institute of Technology & Science, Pilani Hyderabad, India

EXPERIENCE

AI researcher January 2024 - June 2024
Corteva Hyderabad, India

- Creation of **protein sequence summary** by sequence alignment, querying protein DBs and consolidating information using AI.

Data Scientist Intern February 2023 - August 2023
Deloitte Amsterdam, Netherlands

- Conducted data efficiency evaluations, comparing **vision transformers** to their textual counterparts in **Question-Answering (QA)** over custom-made linear-text **novel VQA (Visual QA) document dataset**, comprising 120k QA pairs.
- Improved GPU efficiency and memory with PyTorch Lightning through **quantization** and **gradient accumulation**.
- Developed and deployed custom **keyword extraction** and **long document summarization** (using GPT 3.5, LangChain) models.

Product Management Intern May 2021 - August 2021
Contelligenz Pvt. Ltd. Hyderabad, India

- Built data pipelines for personalized OTT **recommender system**, thus decreasing customer churn rate by 30% and increasing subscriptions by 20% for the client within 2 months.
- Designed a **process roadmap** to build an intelligent database that'd boost the performance of the recommendations.

AI Freelancer March 2020 - March 2021

- Developed **intent-based chatbot** that queries database to reply user questions (as text/speech) with appropriate visualizations.
- Expanded side-scan sonar object detection dataset by 20% using **data augmentation methods** over real side-scan sonar images.

Growth Analyst June 2019 - December 2019
Upwards Fintech Pvt. Ltd. Mumbai, India

- Created rule-based chatbots increasing customers by 8%. Conducted **A/B tests** to optimize marketing campaigns.
- Accelerated long API calls by over 70% using **async, multithreading, and multiprocessing**.
- Saved 10 hrs of daily work for operations team by developing custom string search algorithms and **Document Categorization tool**.

Software Development Intern January 2019 - June 2019
Zinnov Management Consulting Pvt. Ltd. Bengaluru, India

- Utilized **web scraping** to extract public data to generate insights on talent and sales.
- Automated website change detection with Celery **task queues**, saving the web scraping team 5 daily work hours.

SKILLS

Competencies: Experimental design, Statistics, ML modelling, Deployment, ML Ops, Storytelling, Scrum, LLMs, Generative AI

Expert skills: Python, SQL (PostgreSQL), PyTorch, Docker, NumPy, Pandas, Git, VM, Matplotlib, pytest, OpenCV, Cloud (Azure), Flask, Django, Rest API, Agile, Linux, Keras

Advanced skills: TensorFlow, Kubernetes, DevOps (CI/CD), NoSQL (MongoDB), Tableau, R, MATLAB