

Venkat Mohit Sornapudi

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With diverse industrial experience and strong mathematical foundation, I swiftly acquire new skills and solve complex problems. I am adept at working with large datasets, developing/training models, and productionizing them in customer-oriented and business contexts. I have 5+ years of Python experience, including 4+ years in data science. My hobbies are playing badminton, hitting gym, and learning guitar.

EDUCATION

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

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

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

Selected Projects: Low-resource Neural Machine Translation, Structure from Motion, Face-swapping using GANs, Variational Autoencoder, Object detection, Hate speech detection, Semi-supervised Node and Graph classifications, 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 developer January 2024 - June 2024
Corteva Hyderabad, India

- Developed tool to describe protein sequences through sequence alignment, querying protein databases, and summarization.
- Deploying it with ChatGPT 3.5 summarizer. Opensourcing it with alternative summarization models.

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

- Conducted data efficiency evaluations, comparing **vision/multimodal 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 ChatGPT 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 19% for the client within 2 months.
- Designed **data product roadmap** to build intelligent database that can 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 25% 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.
- Ranked customers** to create a priority order of availing loans. Resulted in 11% increase of timely loan repayment rate.
- Saved 10 hrs of daily work for operations team by developing custom **string search algorithm** 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: ML modelling, Data analysis, MLOps, Generative AI, Statistics, Storytelling, Agile
Expert skills: Python, SQL, PyTorch, Docker, NumPy, Pandas, Git, Matplotlib, pytest, OpenCV, Linux, LLMs, CI/CD
Advanced skills: Cloud (Azure), Kubernetes, TensorFlow, NoSQL, Django, Flask, Rest API, R, MATLAB, VM