

Venu Siddapura Govindaraju

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SUMMARY

AI Researcher and Data Engineer with over 4 years of IT experience in developing scalable machine learning solutions and cloud-based data pipelines. Experienced in end-to-end model development, deployment, and delivering data-driven insights through collaborative research and engineering projects.

SKILLS

Programming & Frameworks	Python, SQL, R, PySpark, TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, OpenCV
Machine Learning & Deep Learning	Supervised and Unsupervised Learning, CNNs, Transfer Learning, Adversarial Training, Multimodal Learning
Data Engineering & ETL	Azure Data Factory, Azure Synapse Analytics, Azure Databricks, Apache Airflow, SSIS, Talend, Data Modeling, ETL Automation
Cloud & DevOps	Microsoft Azure (Synapse, Data Lake, Event Hub, ML), AWS (S3, Redshift, Glue), GCP (BigQuery, Dataflow), Docker, Kubernetes, GitHub Actions, Jenkins, CI/CD Pipelines
Visualization & Databases	Power BI, Tableau, PostgreSQL, MySQL, MongoDB, Cassandra, Azure SQL, Dimensional Modeling, Star/Snowflake Schema Design
Tools & Collaboration	Git, Linux, Jupyter, VS Code, Project Presentation, Cross-functional Teamwork, Research Communication, Technical Writing

WORK EXPERIENCE

- AI Researcher — University of Naples Federico II, Naples, Italy** Dec 2024 – Nov 2025
- Worked as part of the university's AI research team focusing on biometric security, multimodal authentication, and adversarial robustness in deep learning.
 - Led and contributed to international research projects including: LivDet 2025 – Fingerprint Liveness Detection and BIOVID 2025 – Lip–Audio Authentication.
 - Collaborated with multidisciplinary teams of AI researchers, data scientists, and engineers to design and deploy scalable deep-learning systems on Azure cloud with CI/CD pipelines using Docker and GitHub Actions.
 - Responsible for model development, experimentation, and end-to-end pipeline integration covering data preparation, training, evaluation, and deployment.
 - Presented the BIOVID Lip–Audio Authentication project at the ICIAP 2025 Conference and achieved **2nd place globally** in the BIOVID Challenge, receiving recognition for technical excellence and project delivery.
 - Co-authored a peer-reviewed Springer book chapter titled "*Multimodal Biometric Authentication Using Lip Motion and Spoken Passphrases*" (2026), published as part of an international research collaboration. [DOI: 10.1007/978-3-032-11381-8_45](https://doi.org/10.1007/978-3-032-11381-8_45).

- Junior Data Engineer — Graded SpA, Naples, Italy** Jun 2023 – May 2024
- Worked as part of the data engineering team to build and maintain end-to-end data pipelines for real-time monitoring of weather and radiation sensor networks.
 - Designed and implemented scalable ETL workflows using Azure Data Factory, Azure Synapse, and

Databricks for ingestion, transformation, and storage of large sensor datasets.

- Developed predictive machine learning models in PySpark and Azure ML to estimate energy efficiency and optimize energy consumption patterns across smart-building systems.
- Deployed analytics solutions to Azure cloud using CI/CD pipelines and containerized environments with Docker and GitHub Actions.
- Collaborated with business analysts and energy managers to deliver interactive Power BI dashboards that provided actionable insights for operational decision-making.
- Contributed to performance optimization and cost reduction by improving data processing throughput and automating daily ingestion and reporting workflows.

Data Analyst — V A Solutions Pvt Ltd, Hyderabad, India

Aug 2019 – Dec 2021

- Worked across SQL development and data analysis to support daily business operations.
- Designed and maintained ETL workflows using Azure Data Factory.
- Created dashboards and reports in Power BI for data-driven decision-making.
- Ensured data accuracy and optimized SQL queries for better performance.

EDUCATION

Master's in Human-Centered Artificial Intelligence

Oct 2023 – Dec 2024

University of Naples Federico II, Italy

Final Grade: 110/110 (cum laude)

Master's in Data Science

Oct 2021 – Mar 2024

University of Naples Federico II, Italy

Final Grade: 108/110

Bachelor of Engineering in Computer Science and Engineering

Aug 2016 – Jul 2019

Nitte Meenakshi Institute of Technology, India

Final Grade: 8.4/10 CGPA

CERTIFICATIONS

Microsoft Azure Data Fundamentals (DP-900)

Machine Learning in Production

Power BI for Data Analysts (Microsoft)

LANGUAGES

English (Professional Proficiency)

Italian (Conversational Proficiency)

Hindi (Native Proficiency)

Kannada (Native Proficiency)

Telugu (Native Proficiency)

INTERESTS

Artificial Intelligence Ethics and Responsible AI

Data Engineering and Cloud Computing

Deep Learning for Biometrics and Authentication

Chess, Traveling