

Samanu Abhinay Sai Kumar Reddy

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Profile

Motivated Data Engineer fresher with strong skills in Python, SQL, Azure Data Factory, ADLS, and cloud fundamentals. I have hands-on experience through internships in cloud computing and solution architecture, where I worked with scalable systems and real-world technical environments. Skilled in ETL processes, data cleaning, and basic data modeling, along with academic projects in machine learning and deep learning. I am a quick learner with strong problem-solving abilities and a passion for building efficient, reliable, and scalable data pipelines on Azure.

Education

- Jun 2017 - May 2018 | Sri Venkateshwara Children's High School, Tirupati | 90%
- Jun 2018 - May 2020 | Higher Secondary Narayana Junior College, Tirupati | 89%
- Sep 2020 - June 2022 | Pursued Bachelor of Engineering AIDS | R.M.K Engineering College, Chennai | 8.31

Academic Projects

Final Year Project – Deep Face Detection for Commercial Centers (Jan to April 2024)

- Developed a deep learning-based face detection system using CNN models to enhance security in commercial centers. The project involved processing real-time image data with techniques such as face alignment and feature extraction to improve detection accuracy. The model was trained and evaluated to efficiently identify individuals, supporting surveillance systems and overall safety operations.
- Technologies Used: Python, Deep Learning (CNN Models), Open CV, TensorFlow, NumPy/Pandas, Jupyter Notebook.

Mini Project – Traffic Sign Detection (April 2021)

- Built a traffic sign detection model using CNN and SVM. Worked with image processing, feature extraction, and classification.
- Technologies Used: Python, Open CV, ML/DL (CNN, SVM Classifiers, TensorFlow, NumPy/Pandas, Jupyter Notebook).

Remote Internship – Solutions Architecture Virtual Experience — Forage (July to Oct 2023)

- Gained hands-on experience in scalable cloud hosting architectures.
- Worked on real-world cloud scenarios involving network design, compute, and storage solutions.
- Improved understanding of distributed systems and cloud scalability.

Internships

Cloud Computing Intern — SKR Exotics Pro Ventures Pvt Ltd — Jul 2022 – Aug 2022 | Chennai, India

- ✓ Worked on cloud fundamentals including virtual machines, networking, and storage.
- ✓ Learned end-to-end working of cloud services and deployment processes.
- ✓ Gained experience collaborating with tech teams and reporting daily learning logs.

AI & Data Science Intern — SKR Exotics Pro Ventures Pvt Ltd — Feb 2022 – Mar 2022 | Chennai, India

- ✓ Maintained research journals on daily learning, feedback, and improvements.
- ✓ Developed better self-assessment and analytical thinking.

Skills & Abilities

SQL and Database Concepts

- Introduction to SQL and Databases
- SQL Aggregate Functions, Joins, Grouping and Subqueries
- Database Normalization and Views

Cloud Essentials

- Azure Data Factory Concepts
- Azure Databricks (PySpark basics, Delta Lake)
- Azure Synapse (SQL serverless, dedicated SQL pool)
- ETL/ELT design patterns
- Partitioning, indexing, caching
- Understanding **big data** concepts

Advanced Databases

- Indexes in Databases
- SQL Stored Procedures and Triggers

Advanced Cloud

- Power Bi Dashboards
- Power Query (M Language Basics)
- DAX (Data Analysis Expressions)
- Basics of calculated columns & measures
- Common functions: SUM, COUNT, CALCULATE, FILTER
- Creating KPIs and simple time-intelligence calculations

Python Programming

- Variables, Operators, Functions and Loops in Python
- Python Modules and file handling

Version Control & CI/CD

- Git & GitHub
- Integration with ADF, Databricks
- DevOps pipelines (basic understanding)
- Deployment through ARM Templates or JSON exports

Certifications

✓ Python Basics for Data Science — edX

Completed a comprehensive introduction to Python for data analysis, covering data types, functions, loops, file handling, and basic data preprocessing. Developed skills using Python libraries essential for data engineering tasks such as Pandas and NumPy.

✓ Introduction to Cloud Computing by Microsoft — edX

Learned the fundamentals of cloud deployment models, service models (IaaS, PaaS, SaaS), cloud security, and the basics of Azure and Microsoft cloud services. Built a strong understanding of cloud infrastructure used in modern data engineering.

✓ SQL for Data Science — Coursera

Developed strong SQL skills including joins, subqueries, filtering, sorting, aggregations, and basic window functions. Gained practical experience in retrieving, cleaning, and transforming datasets—important for database and analytical tasks in data engineering.

Additional Information

NPTEL (July 2022 to September 2022) – Certified in ‘Cloud Computing and Distributed Systems’, Gained strong foundational knowledge in cloud computing concepts, distributed architectures, virtualization, networking, load balancing, and scalable system design. Learned how large-scale systems handle data, performance, and reliability, which directly supports cloud-based data engineering.

First Year Project 2020 – ‘Library Management System’, here I gained knowledge about basics Created a simple system to manage books, users, and borrowing logs.

Achievements

- ❖ Completed multiple cloud, Python, and data-related certifications with high scores.
- ❖ Participated in Smart India Hackathon 2023 and contributed to an innovative solution for multilingual translation.
- ❖ Published or presented academic projects during college seminars and technical events.
- ❖ Awarded Gold Medal in Carroms and recognized as a key team player in college-level competitions.

Languages known: English, Telugu, Hindi (intermediate).