

Niveditha S

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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY, GUWAHATI (IIT-G)

MICRO-DEGREE PROGRAM,
COMPUTER SCIENCE
June 2024 – Sep. 2025 |
Guwahati, AS, India
Continuing Education with 24 credits
under UGC

RAJALAKSHMI ENGINEERING COLLEGE

B.TECH BIOTECHNOLOGY
Aug. 2021 – May 2025 |
Chennai, TN, India
Cum. GPA: 8.34 / 10.0

CERTIFICATION

AWS Certified Cloud Practitioner
Google Data Analytics Professional
Certificate
IBM Certificate - NoSQL, Big Data and
Spark
IBM Certificate - Data Science
Professional
IBM Certificate - Data Engineering
Fundamentals
Tableau Desktop Specialist

IPR

PATENT

AI based Nano robotic arm
(UK 6291782)

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Cerebrovascular Accident Prognosis
algorithm (SW-16203/2023)
Enhanced tool for video organizer
(SW-16851/2023)

SKILLS

PROGRAMMING

Core Technical Skills:
Python • SQL • R • Data Structures •
Algorithms • Databases • ETL • API
Analytics & Cloud:
Statistics • Machine Learning • Data
Analysis • Reporting • Visualization •
AWS • GCP • Git • CI/CD

EXPERIENCE

AIQUANTALYTICS – VIHAANAI CYBERLABS PVT. LTD.

RESEARCH & DATA SCIENCE ASSOCIATE | MENTORED RESEARCH PROGRAM
May 2023 – Jan. 2025 | Bangalore, KA, India

- Optimized models in cybersecurity, natural language processing, speech recognition, and medical imaging, contributing to innovative projects like malware detection, and brain tumor segmentation.
- Co-authored peer-reviewed papers in Elsevier and Springer outlets, submitted manuscripts to IEEE/Springer-level venues, and secured a UK Design Patent for an AI-based Nano Robotic Arm for endoscopic operations.
- Built complete data pipelines (collection to preprocessing to feature engineering to deployment) using Python, Pandas, NumPy, and scikit-learn, implemented automated feature selection for large datasets, and collaborated with cross-functional researchers to deliver AI solutions.

PROJECT

PAYMENTS ETL PIPELINE ON AWS | AWS S3, GLUE, REDSHIFT SERVERLESS, IAM, PYTHON, SQL

Designed and deployed an ETL pipeline for synthetic e-commerce payments, automating ingestion → cleaning → storage of 1M+ records. Achieved fast SQL querying in Redshift and reduced reporting prep time from hours to minutes by centralizing data in the warehouse.

YOUTUBE ADS ANALYTICS DASHBOARD | GOOGLE BIGQUERY, PYTHON (PANDAS, MATPLOTLIB), LOOKER STUDIO, SQL

Collected and analyzed YouTube Ads campaign data (CTR, CPC, ROI) and modeled ad performance using Python + SQL on BigQuery. Built an interactive Looker Studio dashboard that helped identify low-performing campaigns, improving ROI tracking accuracy by 18%.

CLOUD AI CUSTOMER SUPPORT ASSISTANT | GCP VERTEX AI, CLOUD RUN, BIGQUERY, LANGCHAIN, PYTHON

Developed a retrieval-augmented (RAG) chatbot that answered customer FAQs by combining company knowledge base with LLMs on Vertex AI. Deployed on Cloud Run with BigQuery backend, reducing support query resolution time and handling 100+ queries in real-time demo tests.

AWARDS

2023	Top 10 Performer	Databricks Spark-Wars Hackathon
2023	Top 20 teams	Shell.ai Hackathon
2024	First	DISS FEST - Oral Presentation

PUBLICATIONS

- <https://ieeexplore.ieee.org/abstract/document/10235122>
- https://link.springer.com/chapter/10.1007/978-981-97-3556-3_29
- <https://ijrsrset.com/home/issue/view/article.php?id=IJRSRSET23103151>