

Sunil Shuraj Nithiyanandan

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PROFESSIONAL SUMMARY

Artificial Intelligence and Data Science graduate with 21 months of analytics experience at Roche Products (India) Pvt. Ltd., analyzing clinical and operational datasets in SQL and Python to support R&D decision-making. Strong in data cleaning, exploratory data analysis, dashboarding, and business reporting with Power BI, Tableau, and Excel, with hands-on requirements gathering, stakeholder management, Agile delivery, and project coordination. Targeting Data Analyst and Business Analyst roles.

EDUCATION

Saveetha School of Engineering (SIMATS)

Bachelor of Technology in Artificial Intelligence and Data Science; CGPA: 7.95/10.0

Chennai, India

June 2022 – June 2026

EXPERIENCE

Data Science & Immersive Engineering Intern

Oct 2024 – Jul 2026

Roche Products (India) Pvt. Ltd.

Chennai, India

- Analyzed clinical and operational datasets in SQL and Python, cleaning and structuring raw data for team-wide use
- Automated data collection via Python web scraping pipelines, converting unstructured sources into analysis-ready datasets
- Modeled healthcare data with machine learning to surface actionable patterns, replacing manual record review
- Coordinated nearly 20 interns as Point of Contact, allocating tasks, tracking progress, and reporting to stakeholders
- Elicited requirements from R&D and cross-functional stakeholders, delivering via daily stand-ups and bi-weekly demos
- Managed sensitive healthcare datasets under data governance standards; built Unity-based clinical visualization tools

Web Development Intern

Aug 2023 – Sep 2023

CodeBind Technologies

Chennai, India

- Gathered and translated client requirements into responsive websites in HTML, CSS, and JavaScript, concept to deployment
- Resolved hosting and performance issues across client servers, communicating fixes and trade-offs directly to clients

PROJECTS

Play Store Apps & Reviews Analyzer | Python, Pandas, NumPy, NLTK, Matplotlib

Sep 2024

- Segmented Google Play Store datasets to identify leading app categories and quantify market distribution
- Performed NLP sentiment analysis on user reviews, uncovering rating patterns and drivers of user satisfaction
- Visualized category-level trends from exploratory analysis to support product positioning decisions

Digital Account Opening for Retail Bank | Business Analysis Case Study | Banking

Jul 2026

- Conducted stakeholder analysis and elicited business requirements, documenting functional and non-functional requirements in a Business Requirements Document (BRD)
- Mapped AS-IS and TO-BE process flows to pinpoint customer pain points and process improvement opportunities across a KYC-compliant digital onboarding journey
- Authored user stories with acceptance criteria and maintained a Requirements Traceability Matrix (RTM), prioritizing scope using Agile practices

Brain Tumor Detection System | Python, TensorFlow, CNN, OpenCV, BRATS MRI Dataset

Jan 2025

- Engineered a deep learning classification pipeline on the BRATS MRI dataset to automate tumor localization
- Benchmarked CNN against VGG-19 to evaluate diagnostic performance; findings presented at ICISAS 2025

VitalViews – Medical Chatbot | Python, NLP, NLTK

Apr 2025

- Built an NLP-driven chatbot to interpret user health queries and symptom inputs in natural language
- Added medical report parsing to extract and explain basic lab values for non-expert users

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, C++, C#

Data Analysis & Visualization: Data Cleaning, Exploratory Data Analysis (EDA), Statistical Analysis, Data Visualization, Dashboarding, Power BI, Tableau, Excel, Matplotlib

Machine Learning & AI: Machine Learning, NLP, Computer Vision, Pandas, NumPy, Scikit-learn, TensorFlow, NLTK, OpenCV

Data Engineering & Cloud: ETL, Data Pipelines, Web Scraping, Data Preparation, Data Governance, AWS

Tools: Git, GitHub, VS Code, PyCharm, Unity

BUSINESS ANALYSIS & ANALYTICS

Business Analysis | Requirements Gathering | Stakeholder Management | Business Requirements Document (BRD) | Requirements Traceability Matrix (RTM) | User Stories with Acceptance Criteria | AS-IS / TO-BE Process Mapping | Gap Analysis | Agile and Scrum | Process Improvement | Cross-Functional Collaboration | Project Coordination | Analytical Thinking | Problem Solving

CERTIFICATIONS

AWS Certified Cloud Practitioner – Amazon Web Services (Sep 2025) | **Oracle Certified Generative AI Professional** – Oracle (Jul 2025)

PUBLICATIONS

ICISAS 2025, Dubai: Comparing VGG-19 and CNN for Brain Tumor Detection (Feb 2025)

ICRAMM 2024, Tamil Nadu: Mining Genomic Data to Identify Genomic Markers (Dec 2024)

AWARDS

Rajya Puraskar Award in Scouting, Governor of Tamil Nadu | Road Safety Patrol recognition, Commissioner of Police, Chennai