

VALTINA A

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PROFESSIONAL SUMMARY

B.Sc. Artificial Intelligence and Data Science graduate (2026) with hands-on experience across data analysis, machine learning, computer vision, and data visualization. Completed multiple industry internships and led an end-to-end AI/Data Science capstone project spanning machine learning, secure web application development, and automated data analytics. Skilled in Python, Power BI, SQL, and data storytelling, with a strong record of translating raw data into actionable, decision-ready insights.

TECHNICAL SKILLS

- Programming Languages: Python, Java, C, C++, HTML, CSS
- Data & Visualization Tools: Power BI, SQL, Microsoft Excel, Matplotlib, Seaborn
- AI & Data Science: Machine Learning, Data Science Fundamentals, Computer Vision, NLP, AI Tools, Pandas, NumPy, Scikit-learn
- Other Tools: OpenCV, GitHub, Asymmetric Cryptography (RSA), Git
- Soft Skills: Problem Solving, Communication, Adaptability, Teamwork, Analytical Thinking

EDUCATION

B.Sc. Artificial Intelligence and Data Science 2023 - 2026

Rathinam College of Liberal Arts and Science @ TIPS Global Institute, Coimbatore, Tamil Nadu

- Successfully completed the degree program (Graduated: 2026).

Higher Secondary (12th Grade, ISC Board) 2023

Sri Kalaivani International School, Karaikudi, Tamil Nadu

- Scored 81.25%, BioCS Group.

10th Grade (ISC Board) 2021

Sri Kalaivani International School, Karaikudi, Tamil Nadu

- Scored 86.67%.

CAPSTONE PROJECTS

Phase 1 - Online Drowsiness Detection System for E-Learning Using Machine Learning

- Engineered a real-time drowsiness detection system for online learners using eye-blink ratio analysis with OpenCV and Python.
- Tuned and validated machine learning models to trigger real-time alerts, enhancing attentiveness monitoring and learner safety.

Phase 2 - Whisper Vault: Secure Data Encryption and Private Sharing Platform

- Designed and built a web-based platform for secure encryption and private file sharing using asymmetric cryptography (public/private key infrastructure).
- Established secure key management and encrypted transfer workflows to safeguard user privacy and protect data integrity.

Phase 3 - AutoViz AI: Intelligent Data Analysis and Dynamic Dashboard Generator

- Created an automated EDA (Exploratory Data Analysis) tool using Python, Pandas, and NumPy to examine 10,000+ dataset records.
- Applied preprocessing and feature analysis techniques that cut manual data preparation effort by ~40%.
- Generated automated, dynamic dashboards using Matplotlib and Seaborn, producing 15+ analytical visualizations for data-driven insights.

PROFESSIONAL EXPERIENCE

Data Analyst Intern | NectarIT Technologies Pvt. Ltd.

August 2025 - November 2025

Coimbatore

- Processed and reviewed 5,000+ structured records, maintaining 95%+ data accuracy for reporting and data management tasks.
- Collaborated with 4-5 cross-functional team members to streamline data workflows, improving processing efficiency by ~30%.
- Visualized datasets and generated 10+ reports and dashboards, enabling data-driven decision making.

Python Intern - Mini Project (Flower Recognition) | CAD Technologies

May 2024 - June 2024

Coimbatore

- Built a machine learning flower recognition system using Python and Scikit-learn, classifying 5+ flower categories.
- Tested and refined ML models on 1,000+ images, improving classification accuracy and model performance.
- Automated data preprocessing and feature engineering workflows, reducing manual preparation time by ~35%.

Intern - Smart Patient Assistance System | Krishars Systems Private Limited

December 2023

Karaikudi

- Implemented 3+ healthcare automation modules using C/C++, improving patient assistance system functionality and workflow efficiency.
- Tested and debugged multiple system components, resolving 10+ functional bugs in collaboration with senior engineers.
- Integrated API components with backend systems, enabling real-time data synchronization and reducing manual processing time by ~30%.

ADDITIONAL PROJECTS

Digital Portfolio Website | NAN MUDHALVAN

March 2025

- Built a responsive portfolio website using HTML, CSS, and JavaScript, showcasing 6+ projects and certifications.
- Optimized UI components and responsive layouts for 3+ device types, improving navigation efficiency by ~40%.
- Deployed the website using GitHub Pages, enabling 24/7 online access for recruiters to review projects and skills.

CERTIFICATIONS

- Python Programming
- Power BI
- Artificial Intelligence Tools
- Machine Learning
- Web Development
- NAN MUDHALVAN Projects and NPTEL Courses