



ARUNESH VIJAYANAND

 [Portfolio](#) | [Linkedin](#) | [Github](#) | [Devpost](#)

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SUMMARY

Data & ML Enthusiast with hands-on experience applying statistical methods and machine learning to analyze data, generate reports, and deliver actionable insights. Skilled in Python, SQL, and data visualization, with projects ranging from financial tracking tools to large-scale forecasting and fraud detection. Strong foundation in problem-solving and reporting for decision-making.

EXPERIENCE

Python Intern – Codsoft (Virtual Internship)

- Designed and implemented **Python-based automation scripts** for data preprocessing and workflow optimization.
- Applied **object-oriented programming and debugging techniques** to improve code efficiency.
- Strengthened problem-solving and collaboration skills by delivering projects within strict timelines.

SKILLS

Machine Learning / AI: XGBoost, Random Forest, LSTM, Model Evaluation (Accuracy, AUC, RMSE)

Frameworks & Tools: Flask, Streamlit, MongoDB, Git/GitHub

Programming & Scripting: Python, SQL, Object-Oriented Programming (OOP), Data Structures & Algorithms

Specialized Knowledge: Prompt Engineering (Beginner), AR (Meta Spark), Data visualization (Matplotlib, Tkinter)

Core Competencies: Problem-Solving, Research & Analysis, Teamwork & Collaboration, Critical Thinking, Goal-Oriented Execution

CERTIFICATIONS

- AI-ML Virtual Internship – AICTE
- AWS Academy Machine Learning Foundations – AWS
- Machine Learning Specialization – Coursera
- Intro to Data Science – Coursera
- Foundations of AR/VR – Coursera

EDUCATION

- **B.Tech, Computer Science and Engineering (2025)** – SRM University CGPA: 8.51
- **12th Standard (2021)** – Sunshine Chennai Senior Secondary School – 92.8%
- **10th Standard (2019)** – Vels Vidyashram, Chennai – 85.6%

PROJECTS

Attendees – InisioHacks 2023 Winner

- Developed a GUI-based attendance tracker that automated check-in and reporting, improving efficiency by 40% and Won at InisioHacks 2023.

Type Master – Boost Hacks II, Best Gaming Hack

- Built a typing speed test app with gamified leaderboards, achieving 95% accuracy in WPM tracking and engaging 200+ users.
- Secured Best Gaming Hack award at Boost Hacks II.

Donation Dapp – Charger Hacks 2023

- Created a blockchain-based donation platform using Python and Solana, ensuring secure and transparent transactions.
- Designed smart contract logic to improve donation traceability and accountability.

Budget Buddy – Innovate Hacks

- Built a minimalist personal finance tracker in Python (Tkinter) with expense categorization and visualization features.
- Helped test users cut untracked expenses by ~20% during trial runs.

LRX – Minor Project, Academic Research

- Designed a hybrid model (LSTM + Random Forest + XGBoost) for Air Quality Index forecasting across Indian cities.
- Achieved $R^2 = 0.948$ and $RMSE = 0.014$, outperforming standalone models.
- Integrated into a Streamlit-based tool for real-time AQI prediction and visualization, enhancing decision-making for policymakers and citizens.
- Contributed to *Emerging Science Journal* ([Link](#)) regarding the implementation of hybrid ML architectures.

Fauxect – Major Project, Capstone

- Built an ensemble model (RF + GB + LR in Voting Classifier) for fake social media account detection using Twitter API + MongoDB.
- Achieved 99.65% accuracy and $AUC = 0.9966$, significantly reducing false positives/negatives.
- Supported dual modes:
 - Static (10k labeled accounts) – fast, reproducible detection.
 - Dynamic (real-time API) – adaptive detection with caching + token rotation.
- Deployed via Flask web app with username-based detection and confidence scoring, enabling scalable real-world use.

INVOLVEMENT

Member

- SRM - IEI - March 2023 - Present
- Participated in workshops and events conducted by the organization.