

SIDDHNATH ARJUN TIWARI

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Objective

Innovative technology professional seeking to leverage expertise in AI, IoT, and full-stack development to create cutting-edge smart systems. With hands-on experience in computer vision, blockchain, and cybersecurity, I aim to develop secure, intelligent solutions that bridge hardware and software for real-world impact. Passionate about applying machine learning and emerging technologies to solve complex challenges in medical systems and industrial applications.

Work Experience

DATA QUALITY SPECIALIST

Aug 2023 – Sep 2024

Deep Cognition - Bangalore

- Built OCR models with Tesseract, EasyOCR, and OpenCV for data extraction
- Visualized data using Power BI, Matplotlib, and Seaborn
- Fine-tuned LLMs with Hugging Face, PyTorch, and TensorFlow
- Optimized pipelines using Pandas, NumPy, and SQL
- Merged CV (OpenCV, YOLO) and NLP (SpaCy, NLTK) for document automation

WEB APPLICATION PENETRATION TESTING INTERN

Mar 2023

Indian Server Pvt. Ltd. – Vijayawada

- Conducted vulnerability assessments using Burp Suite, OWASP ZAP, Nmap, Wireshark, and Nessus
- Performed network scanning, traffic analysis, and port enumeration
- Identified injection flaws, authentication issues, and misconfigurations
- Prepared security reports with risk assessments and mitigation strategies
- Followed OWASP Top 10 and CVE standards

DATA ANALYSIS INTERN

Jun 2022 – August 2022

Deloitte - Bangalore

- Performed data analysis using Excel, Python, and MATLAB for comprehensive analytics.
- Cleaned and transformed data with Python (Pandas, NumPy), SQL, and MATLAB.
- Automated tasks using Python scripts, MATLAB automation, and Power Query.

CONSULTING INTERN (STRATEGY & UX DESIGN)

Jan 2022 – Apr 2022

Accenture – Bangalore

- Created stakeholder presentations using PowerPoint and Canva
- Developed business strategies using SWOT, PESTLE, and Porter's Five Forces
- Managed projects with Jira and Trello using agile methodologies

Education

Master of Science in Medical Systems Engineering

April 2025 – Present

Otto-von-Guericke Universität Magdeburg, Germany

Bachelor of Technology in Electronics and Communication Engineering

Aug 2019 – Jul 2023

Visvesvaraya Technological University, Bangalore

Technical Skills

Programming Languages: Python, Java, C++, SQL

Artificial Intelligence: Machine Learning, Computer Vision, LLMs, NLP (spaCy, NLTK)

Web & Cloud: Web Development, Cloud Computing, REST APIs

Data Analytics: Power BI, Pandas, NumPy, Matplotlib, Seaborn, MATLAB

Security Tools: Nmap, Burp Suite, OWASP ZAP, Wireshark, Nessus

Hardware Skills: IoT Systems, Embedded Systems, Sensor Networks

CAD/Frameworks: TensorFlow, PyTorch, Hugging Face, OpenCV, YOLO

Projects

Hybrid Approach for Liver Tumor Detection using CNN and ResNet

Feb 2023 – Dec 2023

- Utilized ResNet50 and VGG16 CNN architectures for CT image feature extraction
- Implemented advanced image segmentation techniques, achieving 97% F1-score
- Developed precision-recall balanced model for clinical diagnostic applications

IoT-Based Electricity Theft Detection System

Aug 2022 – Nov 2022

- Designed real-time anomaly detection for power consumption patterns
- Implemented machine learning algorithms for identifying fraudulent usage
- Created alert system for utility companies to prevent revenue loss

CratePass: Blockchain Gate Pass Management System

Aug 2024 – Oct 2024

- Developed decentralized application (dApp) on Stellar blockchain
- Implemented smart contracts using Rust and Soroban SDK
- Ensured tamper-proof record keeping for secure access management

Aptos Blockchain To-Do List Application

Sep 2024 – Oct 2024

- Built full-stack dApp on Aptos blockchain
- Implemented smart contracts for task management
- Designed user-friendly interface with secure wallet integration

Online Courses & Certifications

Elements of AI

Aug 2021

- Probability concepts & AI applications

Creative Problem Solving

Oct 2021

- Applied techniques for effective challenge resolution

Aptos Bootcamp

Mar 2022

- Built decentralized applications on Aptos blockchain

Google Cloud (4 Certifications)

Jan 2022

- Agentic AI apps with Cloud Databases
- Public profile: cloudskillsboost.google/public_profiles/...