

Sabin Timsina

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AI & DATA STRATEGY | TECHNICAL LEADERSHIP

AI/Data Technology Strategist with 6+ years of experience spanning AI/Data/Tech and strategy, helping clients on digital transformation, asset intelligence & emerging technology adoption, backed by technical foundations in Electrical Engineering and AI/Data. Passionate about AI, Data, Agentic AI & Intelligence, regularly sharing independent research and executive thought leadership on AI strategy on LinkedIn.

Key Differentiators:

- **AI/Data × Strategy:** Career intentionally built around AI/Data/Technology and strategy. This is my passion and my direction.
- **Cross-functional fluency:** Able to engage in technical & strategic depth with engineers, AI/Data/Tech teams, business units, field crews and executives.
- **AI MVP Prototyping:** Proficient with AI coding tools (Cursor + Claude/LLM APIs), rapid MVP development practices
- **AI-Enabled Workflows:** Proficient in leveraging AI tools and LLMs in workflows to enhance productivity, improve efficiency and accelerate analysis.

Education

UNIVERSITY OF PENNSYLVANIA - Philadelphia, PA

Master of Science in Engineering in Data Science (AI and ML Concentration)

Graduation: 12/2025

GPA: 3.84, Full-Tuition Sponsorship

UNIVERSITY OF MISSISSIPPI - Oxford, MS

Bachelor of Science in Electrical Engineering, Computer Engineering Emphasis (Honors)

Graduation: 05/2020

GPA: 3.79, Full-Tuition Scholarship

HARVARD BUSINESS SCHOOL ONLINE - Boston, MA

CORE (3 Courses): Economics for Managers, Business Analytics & Financial Accounting

Experience

TRC Companies (acquired by WSP in 2026): Remote

07/2023 - Present

Associate Consultant (AI, Data & Tech Strategy Consultant) - Since 2025

- Advise clients on AI-powered Asset and Visual Intelligence, workflow automation, and emerging technology adoption.
- Help shape multi-year AI, data and technology transformation strategies for major clients, partnering with stakeholders to define program vision, assess data/AI readiness, improve business processes, evaluate regulatory trends, and define technology priorities.
- Conduct market research, regulatory analysis, benchmarking, and emerging technology research and translate findings into executive-level roadmaps, business cases, process workflows, technology strategies, and recommendations.
- Led development of a data-quality scoring model and facilitated SME workshops to translate data-quality findings into executive-ready metrics.
- Performed hands-on analysis across 50M+ records and 5-6 asset classes using Oracle, Snowflake, Jupyter Notebook, Python/Pandas, and SQL, translating process and data gaps into AI/analytics readiness, remediation, and technology requirements.
- Bridged strategy and hands-on technical execution during critical resource gaps by stepping directly into data analytics, SME coordination, workshop facilitation, and deliverable development, helping maintain the original client delivery timeline.
- Modeled end-to-end utility business processes through live stakeholder sessions in LINQ, documenting current-state workflows and supporting process analysis, with ~15-20 stakeholders across the broader asset-intelligence transformation.
- Developed regulatory and industry trend analysis documentation as a core project deliverable, translating regulatory findings into transformation priorities, process recommendations, and executive-ready materials.
- Identified and assessed ~40-50 AI and workflow-automation opportunities for a major ISO's grid platform modernization and subsequently developed 400+ functional/non-functional requirements to translate the modernization strategy into platform capabilities.
- Facilitate enterprise technology selection through RFI/RFP requirements, vendor evaluations, product demos, questionnaires and scoring frameworks.
- Managed project management activities for a ~7-8 month grid-platform modernization strategy project, serving as a primary working-level client contact for weekly check-ins, status reporting, project/action tracking, version management, stakeholder coordination, and budget/hour visibility.
- Contribute to internal AI product and GTM discovery through competitive analysis, potential-customer research and use-case identification.
- Actively mentor rising energy tech professionals to support their growth and career acceleration.

Technical Project Lead - A&I / Automation Engineer II - Consulting

- Led cross-functional engagement between automation teams and clients across 350+ MW projects, supporting RTAC/HMI software implementation.
- Managed budgets and resource allocation for \$200K-\$300K automation scopes within \$1M+ projects, supporting timely and cost-effective delivery.
- Drove UI/UX strategies for HMI dashboards utilizing SEL & GE HMI software for renewable substations across 1GW+ total generation capacity.
- Collaborated with stakeholders to gather requirements and translate operational needs into SCADA/data maps and automation requirements.
- Owned full lifecycle of automation software (SEL RTAC) configuration and testing, including developing data pipelines from field to SCADA.

Power Relaying Solutions (PRS): Charlotte, NC

08/2020 - 07/2023

Automation Engineer - Consulting

- Delivered automation solutions by carrying out the full configuration and testing lifecycle of software (SEL RTAC & GE HMI) for various substations.
- Collaborated with client stakeholders to gather requirements and develop SCADA maps for accurate monitoring and control.
- Programmed and configured data extraction from field devices leveraging DNP3, Modbus, and IEC 61850 protocols.
- Mentored and provided technical guidance to interns, improving team efficiency and accelerating knowledge transfer.

SOAIR (Ultrasonic Medical Technology Research Startup - Hardware and Software): Oxford, MS

05/2017 - 12/2019

Electrical Engineering Intern (Part-time during school year; full-time during summer)

- Contributed to applied R&D for an ultrasonic gait-measurement system, integrating hardware, software, sensors, and signal-processing components and developing data acquisition, analytics, and signal-processing workflows using LabVIEW, MATLAB, and Raspberry Pi.
- Automated processing and visualization of hundreds of ~100K-point datasets in MATLAB, reducing an approximately week-long manual Excel workflow to ~5 minutes; solution remained in use by the research team roughly one year later.

Your Solar Guy - Agentic AI Product

2026

Product Strategist | AI Engineer

Live Product: <https://app.sabintimsina1.com/yoursolarguy>

- Took an energy-focused Agentic AI product from problem discovery and ~15-20 user conversations to a deployed MVP in ~1 month / 150+ hours.
- Designed Agentic AI workflows for document extraction, QA/QC, email coordination, RAG Q&A, and deterministic calendar actions.
- Defined product strategy, requirements, architecture, roadmap, and KPIs; tested ~15 scenarios and utilized rapid prototyping methods to build the MVP using Cursor/Codex, Supabase, Vercel, GitHub, and Gemini/LLM APIs from scratch.

Strategy & Product Management Initiatives

TIGER Innovators - IT/OT + GIS Product Discovery | TRC

2024 - 2025

- Co-led product strategy and discovery for a utility IT/OT + GIS concept, translating SME and user research into 5-6 use cases, 4-5 prioritized features, Figma concepts, a high-level product roadmap, and a leadership pitch to ~7-8 stakeholders.

Product & Data Volunteer | CivicTech DC - ElectrifyDC

2025

- Supported product strategy and product-owner activities through feature prioritization, Kanban management, and roadmap planning while developing a fuzzy-matching data validation algorithm to reconcile contractor/vendor data across licensing and certification sources.

AI & Data Science Projects

Human Emotion Detector | Computer Vision, Audio & Multimodal ML

Sep 2025 - Dec 2025

- Led development and integration of three ML models spanning facial-image and facial-landmark/blendshape data using CNN, Random Forest, and MediaPipe; developed a majority-voting ensemble to combine predictions into a unified emotion-recognition workflow.
- Took on project management responsibilities, tracking timelines and deliverables, keeping team members aligned on upcoming deadlines, and coordinating project communication with professors and instructors.

Expedia-Meets-Yelp | Full-Stack Travel Web Application

Sep 2024 - Dec 2024

- Owned frontend and database development for a full-stack travel application, designing Figma-based user flows and working across React.js, FastAPI, PostgreSQL/AWS RDS, S3/EC2, Docker, and Pandas.
- Coordinated team delivery and communication, keeping workstreams aligned with project milestones, upcoming deadlines, and submission requirements.

Airbnb Demand Predictor | Machine Learning & Time-Series Prediction

Jan 2024 - Apr 2024

- Developed a 10-city room-availability prediction workflow and spearheaded exploratory and unsupervised analysis using PCA, K-Means, visualization, and outlier detection.
- Applied sentiment analysis, Random Forest, and autoregressive modeling to support availability prediction.

Strategy Consulting & Technical Skills

Strategy & Product	AI/Technology Strategy, Digital Transformation, Product Strategy, Product Discovery, MVP, Requirements, Business Process, Roadmaps, Figma, Agile/Jira, Market & Regulatory research, Requirements gathering, UI/UX Brainstorming, Use Cases
AI, Data & Analytics	Agentic AI, GenAI/LLMs, RAG, ML, Data Strategy, Python, SQL, Pandas, NumPy, Scikit-learn, PySpark, MATLAB, Power BI, Tableau
AI Tools	Claude / Claude Code, Cursor, Codex, Gemini, Perplexity, Meta Muse, Copilot, Granola, Wispr Flo
Cloud & Development	AWS (EC2, RDS, S3), GCP, Azure Data Factory, Supabase, Vercel, FastAPI, React.js, Node.js, Docker, Git/GitHub, REST APIs, PostgreSQL, Snowflake, Oracle, MongoDB, Neo4j

Leadership & Awards

Outstanding Senior Leadership Award, School of Engineering	2020
President of Ole Miss Robotics Club / Founding Secretary and Robotics Mentor	2018-2019 / 2017-2018
President of IEEE at University of Mississippi	2017-2018
National Robotics Competition Winner (Yantra 4.0)	2015

Conference & Research

Acoustical Society of America (ASA) | San Diego, CA

- Presented research on ultrasonic gait measurement at the Acoustical Society of America conference, titled "*Human Heel-Contact and Toe-Off Times Measured with an In-Air 40 kHz Doppler Ultrasound*," published in the Journal of the Acoustical Society of America

Selected Certifications & Professional Development

Product & Agile	Data & Technology
■ Technology for Product Managers	■ Google Data Analytics
■ Product Innovation for Product Managers	■ Microsoft Azure for Data Engineering
■ Building a Product Roadmap	■ Building Data Engineering Pipelines in Python
■ Building a Product Strategy	■ ETL in Python
■ Technical Product Management	■ SQL for Data Science
■ Customer Development	■ Visual Analytics with Tableau
■ Agile with Atlassian Jira	■ Introduction to Data Engineering