

Abhay Naik

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Summary

Engineer & Product Builder with proven success delivering AI/ML solutions, real-time AI voice systems, and SaaS platforms. Skilled at bridging deep technical execution (backend, cloud, ML pipelines) with business strategy (roadmapping, adoption, visualization). Experienced in leading cross-functional teams, building user-facing dashboards, and delivering products that improve efficiency, reduce costs, and drive adoption. Passionate about turning complex data into intelligent, revenue-driving products.

Technical Skills

- **Programming & Scripting:** Python, Java, SQL, JavaScript (ES6+), Swift, XML, XSLT
- **Data & Visualization:** Tableau, Excel (Advanced), Pandas, NumPy, Matplotlib, Databricks
- **Databases & Storage:** PostgreSQL, MS SQL Server, Amazon DynamoDB, Firebase
- **Web & Frontend:** React.js, Tailwind CSS, HTML5, CSS3, JavaScript
- **Cloud & DevOps:** AWS (S3, EKS), Firebase, Heroku, Git, CI/CD workflows
- **Product & Strategy:** Roadmapping, KPI Definition, User Research, Dashboard Design, Go-to-Market Pilots

Projects

Real-Time AI-Powered Healthcare Voice Assistant Platform 10/2024 – Present

- Designed and launched an AI voice assistant for healthcare providers, enabling 24/7 patient scheduling, reminders, and engagement — reduced call center workload by 40%.
- Architected backend (Node.js + WebSockets) and multi-call orchestration with VAD fallbacks, barge-in handling, and tool-call execution.
- Built a full-stack React + Tailwind dashboard with Stripe billing, integration marketplace, and patient management features, supporting pilots with multiple clinics.
- Shipped real-time analytics (Elasticsearch) tracking sentiment, metadata, and AI behavior.
- Integrated AWS (S3, EKS, DynamoDB) with secure IAM policies for HIPAA-compliant scaling.

Neural Archetypes & Roster Optimization in the NBA

- Developed ML pipelines (Random Forest, KMeans, GMM) to cluster NBA players by archetype, achieving 71% accuracy.
- Built free-agency targeting models connecting roster needs to archetype gaps, supporting data-driven team-building strategies.
- Applied PCA and silhouette scoring for model interpretability, ensuring results were actionable for decision-makers.

Flight Delay Forecasting with Multilayer Perceptrons

- Built ML pipelines on Spark/Databricks using weather, carrier, and congestion features to forecast delays.
- Trained and tuned MLPs vs. baseline regression models, improving predictive accuracy across airports
- hyperparameter tuning and time-based splits for generalization.

Professional Experience

The Groove (Remote) 10/2025 – Present

Enterprise Data Engineer

- Built and deployed AI chatbots leveraging Sana AI and Flowise AI, designing system prompts and orchestrating multi-agent chat and tool-call chains for intelligent research and reporting workflows.
- Designed automated KPI computation pipelines in Databricks, streamlining calculation and reporting for finance and operations metrics across projects.
- Developed robust ETL pipelines in Databricks to ingest and transform Workday reports into analytical tables, enabling downstream reporting and analytics at scale.
- Partnered with cross-functional stakeholders to define data models, business logic, and governance, improving metric accuracy, accessibility, and speed of reporting.

Cognizant, San Ramon, CA 07/2023 – Present

Consultant Integrations

- Drove end-to-end product lifecycle for 100+ Workday integrations (XML/XSLT), automating HR & Finance workflows — reduced manual effort by 30%.
- Partnered with clients, engineering, and business leads to define requirements, prioritize features, and deliver scalable solutions.
- Managed the full integration lifecycle (planning → build → testing → deployment) using Cynergy methodology, ensuring high client adoption.
- Collaborated with cross-functional stakeholders to design scalable, client-specific solutions that improved satisfaction and retention.
- Served as Metrics & Visualization Lead, creating executive dashboards that surfaced KPIs and improved delivery timelines by 15%.

Decision Minds Inc., Milpitas, CA 05/2021 – 08/2021

MIS & Business Management Intern

- Designed and deployed real-time executive dashboards, improving decision-making and enhancing agility by 15%.
- Improved sales forecasting accuracy by 10% through KPI identification and visualization.

Education

University of California Berkeley – Master's in Information and Data Science Expected 2026

San Jose State University - BS in Management Information Systems & Computer Science Minor 05/2023