

Akshay Biradar

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Professional Summary

Second-year B.Tech Computer Science student at MIT ADT University with active industry experience building and delivering production-ready AI-powered software products. Hands-on expertise in LLMs, ML pipelines, time-series forecasting, fraud detection, edge AI, and BI analytics. Certified in AI & Data Science (IIT Indore), AWS Generative AI, and Snowflake AI Agent Pipelines. Seeking **AI/ML Engineer**, **Data Analyst/BI**, or **ML Scientist** roles to apply real-world engineering experience and academic foundations.

Core Competencies: Machine Learning | LLM Applications | Time-Series Forecasting | Predictive Analytics | AI Agent Development | Backend Integration | REST API Design | BI Dashboards | Edge AI | Cloud Infrastructure

Technical Skills

- Languages & Querying:** Python, SQL, TypeScript, JavaScript, Power Query (M), DAX
- Machine Learning & AI:** Scikit-learn, XGBoost, Pandas, NumPy, Matplotlib, Seaborn, SVD, Collaborative Filtering, Statistical Modeling, NLP, Speech Recognition, Feature Engineering
- Time-Series & Forecasting:** Prophet, ARIMA, SARIMA, statsmodels, Plotly, ADF Stationarity Testing, Rolling Statistics
- LLM & Generative AI:** LangChain, OpenAI API, GPT-4o-mini, Prompt Engineering, AI Agent Development, Edge AI
- Cloud & Infrastructure:** AWS (Cloud Foundations, Generative AI), Snowflake, Firebase (Auth, Firestore, Functions), Supabase, Netlify, Raspberry Pi 5
- API & Backend:** REST API Design & Integration, Third-Party API Consumption, JWT, Stripe, Razorpay, Firebase Auth, Supabase Edge Functions
- BI & Analytics:** Power BI, DAX, Power Query, Quick Insights AI, YouTube Analytics, Microsoft SQL
- Databases:** PostgreSQL, MongoDB, Firebase Realtime DB, Supabase

Education

MIT ADT University	Pune, Maharashtra
<i>Bachelor of Technology (B.Tech) in Computer Science</i>	<i>Aug 2024 – Expected May 2028</i>
Kai Indirabai Deshmukh Junior College	Hanegaon
<i>Higher Secondary Certificate (HSC), Science – PCM + Biology</i>	<i>May 2023</i>
Shyamlal Memorial High School	Udgir
<i>Secondary School Certificate (SSC)</i>	<i>April 2021</i>

Experience

AI Engineer	Oct 2025 – Present
<i>Peakso</i>	<i>Remote</i>
- Build and deliver custom AI-powered software products for clients, translating business requirements into production-ready solutions within tight timelines. - Integrated Firebase (Realtime DB, Firestore, Auth, Cloud Functions) and Supabase (PostgreSQL, Row-Level Security, Edge Functions) as backend infrastructure, enabling real-time data sync, secure authentication, and scalable storage. - Designed and consumed REST and third-party APIs (payment gateways, analytics, messaging, AI services) to extend product capabilities and connect client systems with external platforms. - Embedded LLM capabilities (LangChain, OpenAI API, GPT-4o-mini) and ML models into client-facing products, delivering intelligent features such as natural language interfaces, automated workflows, and predictive analytics. - Managed end-to-end delivery – from requirement gathering and architecture design to deployment and client handoff – ensuring every product met functional and performance requirements.	

Projects

- Credit Card Fraud Detection System** | *Python, Scikit-learn, XGBoost, Pandas, REST API* [GitHub](#)
- Built an end-to-end ML fraud detection pipeline on real credit card transaction data achieving **AUC 0.9999**, Precision 0.99, and Recall 0.98 using ensemble methods and advanced outlier handling.
 - Deployed a live **REST API** for real-time fraud scoring; applied SMOTE and threshold tuning to handle severe class imbalance.
- UIDAI Aadhaar Center Optimization – ML for Public Policy** | *Python, Scikit-learn, Pandas, NumPy* [GitHub](#)
- Developed an **ML framework** to optimize Aadhaar enrollment center placement across India at the pincode level using domain-specific feature engineering (daily activity rates, biometric completion ratios, recency scores).
 - Built classifiers to assign pincodes into priority tiers (CRITICAL/HIGH/MEDIUM/LOW) and assessed policy impact by comparing pre/post-intervention enrollment patterns.
- COVID-19 Time-Series Forecasting & Epidemiological Analysis** | *Python, Prophet, ARIMA, SARIMA, Plotly* [GitHub](#)
- Performed end-to-end **time-series forecasting** on global and India-specific COVID-19 data using Facebook Prophet (7-day), ARIMA, and SARIMA with 60-month projections.
 - Applied ADF stationarity testing, log transformations, and RMSE-based tuning; visualized trends via interactive Plotly choropleth maps and rolling statistics.
- Sales Forecasting & Customer Analytics Capstone** | *Python, Pandas, NumPy, Matplotlib, Seaborn* [GitHub](#)
- Analyzed **Walmart weekly sales** (6,435 records over 2.5 years) and **387,961 retail transactions**; identified seasonal patterns and discovered unemployment as the strongest negative sales correlate.
 - Segmented **3,226 unique customers** (avg. order \$400.67) and delivered inventory optimization insights from holiday vs. non-holiday performance analysis.
- Raspberry Pi 5 Voice AI Endpoint** | *Python, LangChain, GPT-4o-mini, SpeechRecognition, gTTS* [GitHub](#)
- Engineered an **edge AI voice assistant** on Raspberry Pi 5 integrating real-time speech-to-text (Google STT), LangChain + GPT-4o-mini LLM inference, and gTTS audio output in a continuous voice loop.
 - Implemented ambient noise calibration, microphone timeout management, and graceful error recovery for reliable constrained-hardware deployment.
- Personalized Movie Recommendation System** | *Python, Pandas, NumPy, scikit-surprise, SVD* [GitHub](#)
- Built a **collaborative filtering recommendation engine** on Netflix user rating data using Singular Value Decomposition (SVD) and matrix factorization to predict user preferences; evaluated with RMSE.
- Student Spending & YouTube Analytics Dashboards** | *Power BI, Power Query, DAX, YouTube Analytics API* [GitHub](#)
- Developed two interactive **Power BI dashboards** – one analyzing US student spending behavior across store types and locations, another tracking YouTube channel KPIs (subscribers, views, earnings) across Entertainment, Music, and Gaming.
 - Designed DAX measures and Power Query transformations to surface actionable insights via dynamic slicers and drill-through analysis.

Certifications

- AI & Data Science Professional Certification** [Dec 2025](#)
Drishti CPS, IIT Indore
- AWS Cloud Quest: Generative AI Practitioner** [May 2026](#)
Amazon Web Services Training and Certification
- AWS Academy Graduate – Cloud Foundations** [Feb 2026](#)
Amazon Web Services Training and Certification
- From Zero to Agents: Building End-to-End Data Pipelines for an AI Agent** [April 2026](#)
Snowflake Developers
- Networking Basics** [Jan 2026](#)
Cisco