

# ABHINAY SAMBHERAO

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## CAREER OBJECTIVE

Detail-oriented and analytical **Data & AI Engineer** with a strong foundation in Computer Science and hands-on experience in **SQL, data pipelines, AI automation, and full-stack development**. Proficient in **Python, Power BI, Next.js, and cloud platforms (Azure, GCP)** with proven ability to deploy production-grade applications. Passionate about building intelligent systems, transforming data into actionable insights, and leveraging AI for high-impact solutions.

## SUMMARY OF QUALIFICATIONS

- Built and deployed **AI-powered applications** (chatbots, lead qualification systems, assessment agents) using NLP, RAG pipelines, and automation.
- Developed **interactive dashboards and reports** using Power BI and Tableau, reducing manual reporting by 60%+.
- Implemented **CI/CD pipelines** with GitHub Actions and Google Cloud Build for automated deployments.
- Conducted **load testing (k6)** to optimize infrastructure resilience under high concurrency.
- Collaborative communicator skilled in **process documentation, RCA, and presenting insights** to non-technical stakeholders.
- Domain familiarity in **finance, accounting, mental health, and education technology**.

## EDUCATION

**M.Sc. in Computer Science Focus on Big Data And Artificial Intelligence** (2026-2028)

SRH University, Leipzig Campus, Germany

**Core Subjects:**

**B.Sc. in Computer Science** (2022-2025)

Dr. D.Y. Patil Arts, Commerce & Science College, Akurdi — *Savitribai Phule Pune University*

**CGPA:** 8.30/10.00

**Core Subjects:** Statistics, ICT, Database Design, Software Development, Networks

## EXPERIENCE

### AI & Full-Stack Developer (Intern)

*[BRTNeura LLP] — July 2025 – Sept 2025*

- Cloud Deployment & Infrastructure:** Deployed Node.js and React apps on Google Cloud Run using CI/CD (GitHub Actions, Cloud Build). Configured IAM roles, service accounts, and DNS verification for secure deployments.
- DevOps & Automation:** Designed GitHub org structure, branching strategy & access policies. Automated workflows in **n8n** integrating AI (OpenRouter + Gemini 2.5 + OpenAI), Firebase & Firestore.
- AI & Product Development:** Built **AI-powered lead qualification system** with spoof detection, NLP intent classification, and CRM integration. Designed **hybrid scoring logic** (heuristics + AI) for prioritizing leads.
- Assessment Platform:** Created **IT Skills Assessment Agent** (Next.js 14 + TypeScript) with adaptive testing, secure result pages, timed assessments, certificates, and real-time analytics — used internally for hiring.
- Performance & Reliability:** Conducted **load testing (k6)** to benchmark resilience, resolved infra issues (timeouts, EADDRINUSE, ECONNREFUSED), optimized concurrency handling.
- Full-Stack Development:** Built **responsive Next.js apps** integrated with APIs, authentication, and cloud storage. Developed chatbot interfaces with **RAG pipelines** for intelligent conversations.

### Data Analyst & Cloud Intern

*FLX Cloud Services — Dec 2024 – Mar 2025*

- Designed and deployed **data pipelines in Azure Data Factory**, processing high-volume structured data for reporting.
  - Implemented **Snowflake data models** and transformation scripts, reducing data processing time by 35%.
  - Conducted **exploratory and statistical data analysis** using Python and SQL, uncovering KPIs and root causes for business inefficiencies.
  - Developed and maintained **Power BI dashboards**, visualizing insights and enabling data-driven decisions.
  - Coordinated with business teams to resolve data issues and document test cases, data definitions, and RCA reports.
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## PROJECTS

### [brtneura.com](#) – AI-Powered Business Solutions Platform

*Next.js 14, Node.js, TypeScript, n8n, GCP (Cloud Run, Cloud Build)*

- Developed and deployed the **official website & AI chatbot** with **RAG pipelines**, enabling context-aware responses.
- Built an **Exam Agent** that generates adaptive assessments with secure result pages, timed tests, and certificate downloads — used by the company for **hiring processes**.
- Implemented **AI-driven lead qualification system** with spoof detection, NLP intent classification, and CRM integration.
- Automated workflows using **n8n + AI models (OpenRouter Gemini 2.5, OpenAI)**, integrating Firebase/Firestore for real-time data.
- Conducted **load testing (k6)** and optimized infra for high-concurrency reliability

### Research Automation Agent (AI-driven Data Processing System) [Link](#)

- Designed and deployed an AI-based system for automated information retrieval, processing, and summarization workflows
- Implemented pipeline-based architecture for structured data extraction and transformation
- Built intelligent agent logic for multi-step task execution and decision-making
- Integrated APIs and backend services to enable continuous data flow and processing
- Developed frontend interface for data interaction and visualization

### Pneumonia Detection Web App

*TensorFlow, Flask, REST APIs*

- Developed and deployed a real-time diagnostic tool using CNNs, enabling fast detection from X-ray uploads.
  - Integrated geolocation APIs to suggest nearby medical facilities, improving user utility.
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## TECHNICAL SKILLS

**Programming:** Python, SQL, Java, C/C++, JavaScript, TypeScript

**Analytics & Data:** Power BI, Tableau, Advanced Excel, EDA, Snowflake

**Cloud & DevOps:** Azure Data Factory, Google Cloud (Cloud Run, Cloud Build, IAM), GitHub Actions, Docker (basics)

**Frameworks:** React, Next.js 14, Node.js, Express.js, Flask, Vue

**AI & Automation:** RAG pipelines, n8n automation, OpenRouter (Gemini), NLP, lead scoring, spam detection

**Databases & Integrations:** MongoDB, Firebase, CRM systems, SendGrid, Slack APIs

**Testing & Reliability:** Load Testing (k6), Debugging, Performance Optimization

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## CERTIFICATIONS

- Master in Microsoft Power BI Desktop and Service
  - Cisco Data Analytics Essentials
  - IBM Data Fundamentals
  - Complete Software Engineering with Python (Udemy)
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## LANGUAGES

**English:** C2 (Listening, Reading, Writing), C1 (Speaking) IELTS Band: 7.0

**German:** Goethe A1 Certified, pursuing A2