

# Saurabh Dubey

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## Profile

Seasoned professional with **21 years of experience** in **Generative AI, Cloud Architecture, and Automation Consulting**, specializing in delivering innovative and scalable solutions for global clients. A **certified GSDC Generative AI Professional and AWS Certified Solutions Architect Professional**, I bring a wealth of expertise in leveraging cutting-edge AI and cloud technologies to solve complex business challenges. With a proven track record of consulting across **matrix-structured teams** in the **USA, UK, and Europe**, I excel at collaborating across organizational levels to drive innovation, operational efficiency, and business growth.



## Achievements

**Pioneered Generative AI Solutions:** Designed and deployed a cutting-edge **AI-powered conversational agent** for a leading healthcare provider, improving customer query resolution time by **45%** and increasing user satisfaction by **30%**.

**Advanced Generative Model Development:** Spearheaded the development of a novel GAN-based image synthesis model, achieving state-of-the-art performance in medical imaging diagnostics, enhancing accuracy by **20%**.

**Transformative AI Innovation:** Led the creation of a transformer-based generative language model tailored for legal document summarization, reducing processing time by **60%** and boosting productivity in client deliverables.

**Cloud Migration Leadership:** Led a **multi-million-dollar cloud migration project** for a global enterprise, successfully transitioning legacy systems to **AWS and Azure** within the timeline and reducing operational costs by **25%**.

**Automation Excellence:** Implemented end-to-end **automation frameworks** for repetitive business processes, resulting in a **40% efficiency boost** and **15% cost savings** annually for a Fortune 500 client.

**Global Consulting Impact:** Directed strategic **AI and automation roadmaps** for clients in **USA, UK, and Europe**, driving revenue growth by introducing **scalable, cloud-native AI solutions** that aligned with business objectives.

**Certifications and Expertise:** Achieved **GSDC Generative AI Professional Certification** and **AWS Solutions Architect Professional**, contributing to winning high-profile client engagements by ensuring technical excellence.

**Cross-functional Leadership:** Successfully managed **diverse, global teams** of over 50 members across engineering, product, and operations, delivering complex projects with **100% on-time delivery**.

**AI-driven Insights:** Developed **predictive analytics models** using Generative AI and ML, enabling a retail client to optimize inventory and reduce wastage by **20%**, saving over **\$2M annually**.

**Automation in DevOps:** Introduced CI/CD pipelines and **infrastructure as code** practices, cutting deployment times by **60%** and increasing code reliability.



## Achievements

for a tech startup.



## Work Experience

10/2010 – present  
Bengaluru, India

### Consultant

#### TATA CONSULTANCY SERVICES

Generative AI and Automation Consultant with extensive experience designing and implementing **AI-driven solutions** across **healthcare, life sciences, retail**, and enterprise applications. Expertise in leveraging **Generative AI tools**(OpenAI, LangChain) and **automation frameworks** to optimize workflows, drive innovation, and reduce costs.

Key Use Cases:

- **Productivity Analytics:** Developed a **Generative AI-based tool** to capture and analyze **Copilot metrics usage**, providing insights into productivity improvement across teams.
- **SLLMs for Architecture Modernization:** Designed **GenAI-powered SLLMs** to eliminate **MSA (Microservices Architecture)** dependencies for a legacy application, improving scalability and maintainability.
- **Healthcare Automation:** Deployed an **AI-powered document analysis system** for clinical data, reducing processing time by **40%** and enhancing data accuracy.
- **Retail Optimization:** Built **predictive analytics models** for inventory management, reducing wastage by **20%** and saving millions in operational costs.
- **Customer Engagement:** Implemented **AI-driven chatbots** for patient support and retail customer queries, improving response time and user satisfaction by over **30%**.
- **AI for DevOps:** Developed **end-to-end automation frameworks**, integrating CI/CD pipelines with AI capabilities to accelerate software delivery by **60%**.

Skilled in **cloud-native architectures** (AWS, Azure), cross-functional collaboration, and delivering scalable, impactful solutions that align with strategic business goals.

01/2008 – 06/2010  
Bengaluru, India

### Programmer Analyst

#### Infosys Technologies

**Cloud Automation Strategy:** Designed and implemented **test automation strategies** tailored to cloud-native applications on **AWS**, ensuring alignment with project goals and comprehensive validation of functional and non-functional requirements, including performance and scalability.

**Scripting and Framework Development:** Developed and maintained **automation scripts** using **Python, Java**, and cloud-based testing tools, contributing to the enhancement of **automation frameworks** for improved scalability, maintainability, and seamless integration with **AWS services** (e.g., Lambda, S3, RDS).

**Functional Automation :** Collaborated with cross-functional teams to develop **test plans** for cloud-based solutions, identifying automation opportunities and ensuring thorough validation of **AWS deployments**. Automated test execution for **CI/CD pipelines**, analyzing results and generating actionable insights for stakeholders.

**Tool Selection and Integration:** Assessed and integrated industry-standard tools (e.g., **Terraform, Selenium, Appium**) and AWS-native services into testing workflows to enhance automation efficiency and ensure the reliability of results. Optimized **AWS architecture testing** to validate security, compliance, and scalability.

**AWS Functional Validation:** Conducted detailed validation of cloud-based functionalities, including API integrations, serverless architectures, and storage solutions, ensuring **resilient and robust application performance** in a cloud environment.



## Work Experience

11/2006 – 01/2008  
Bengaluru, India

### Automation Consultant Cognizant Technologies

**Client Engagement:** Engaged with clients worldwide to understand their unique business needs, challenges, and testing requirements. Provided tailored test automation consultancy services to enhance their testing processes.

**Technology Expertise:** Demonstrated proficiency in working with diverse technologies, platforms, and application architectures. Adapted quickly to new technologies and provided strategic guidance on the selection of appropriate automation tools and frameworks.

**Global Project Leadership:** Led international teams in implementing test automation solutions for clients in various industries. Collaborated with on-site and remote teams to ensure seamless communication, project delivery, and client satisfaction.

**Automation Strategy Development:** Developed comprehensive test automation strategies aligned with clients' business goals. Conducted feasibility studies, risk assessments.

08/2003 – 10/2006  
Bengaluru, India

### Analyst - Automation (Embedded) Sway Technologies

Define and execute the automation strategy, including selecting appropriate tools and frameworks. Identify opportunities for test automation and assess the feasibility of automation for different components. Write, review, and maintain automated test scripts using scripting or programming languages (e.g., Selenium, Java, Python). Ensure that automated scripts are efficient, maintainable, and reusable.

Execute automated test scripts and analyze test results. Investigate and troubleshoot test failures, identifying root causes and providing feedback to development teams. Collaborate with developers, business analysts, and other team members to understand product functionality and identify automation opportunities.

Participate in code reviews and contribute to overall product quality. Evaluate and recommend automation tools and frameworks based on project requirements. Implement and maintain automated testing tools and infrastructure.



## Skills

Generative models like GANs, VAEs, and Transformer-based models (e.g., GPT, BERT).



Hands-on with AI libraries: TensorFlow, PyTorch, Transformers



Developing and enhancing automation frameworks: Selenium, Appium, PyTest.



Automated validation for AWS services and serverless workflows



AI-Powered Applications: Conversational agents, text summarizers, document analysis tools



Infrastructure as Code (IaC): Terraform, AWS CloudFormation.



Functional Automation for cloud-based applications.



Embedding generation and retrieval using vector databases: Chroma, Pinecone, ElasticSearch.



Monitoring and logging with CloudWatch, AWS X-Ray.



Automated validation for AWS services and serverless workflows.





## Certificates

- **GSDC Generative AI Professional**  
Global Skill Development Council
- **AWS Certified Solutions Architect - Professional Certification**  
Amazon



## Education

Lucknow, India

- **Electronics | B-Tech**  
Azad Institte Of Engineering & Technology