

AKSHAT PATEL

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PROFILE SUMMARY

- **Dynamic Software Developer & Cloud/DevOps** Engineer skilled in building and optimizing scalable, secure applications and cloud infrastructure.
- Strong foundation in **Full-stack development** and proficient in **Backend technologies** like **Python** and **Django** and **Frontend technologies** like **HTML, CSS, JavaScript, and React**.
- Proficient in **CI/CD automation**, **cloud computing (AWS)**, and **containerization technologies (Docker and Kubernetes)** enabled automated application deployment and ensured efficient and reliable release cycles.
- Collaborated with **cross-functional Agile/Scrum teams** to streamline development workflows and accelerate software delivery.
- **Strong analytical and problem-solving skills** in debugging, performance tuning, UI enhancements, and implemented **scalability** and **cost optimization** strategies; committed to continuous learning of emerging technologies.

EDUCATION

Dwarkadas J. Sanghvi College of Engineering, Mumbai, India

June 2024

BTech in Information Technology

GPA: 8.7 / 10.00

Courses - Software Engineering, Data Structures Algorithms, Database Management, Big Data Analytics, Artificial Intelligence, Cloud Computing.

TECHNICAL SKILLS

Programming & Scripting Languages: Python, JavaScript, HTML, CSS

Web Development Frameworks: Django, React, Bootstrap, Tailwind

Cloud & DevOps Technologies: AWS (EC2, S3, Lambda, API Gateway, Cognito, SQS), GCP, Docker, Jenkins, Kubernetes

Databases & Testing Tools: MySQL, NoSQL (MongoDB), Selenium

Tools and Deployment Platforms: Google Colab, Visual Studio Code, Jupyter, Streamlit, Flask, Git, GitHub, Gitlab

Certification: AWS Certified Developer Associate (July 2023 – July 2026)

PROFESSIONAL EXPERIENCES

Forcepoint

July 2024 – January 2025

Software Developer

Mumbai, India

- **CI/CD Optimization:** Streamlined CI/CD processes for the **RBI project** using **Docker, Jenkins & Kubernetes**, reduced deployment time by **25%** and enhanced release reliability.
- **Codebase Modernization:** Migrated legacy **Python 2.7** codebase to **Python 3.8** for the **SSE project**, cutting maintenance costs by **20%** and significantly boosting system performance through improved code efficiency.
- **Data Security Enhancement:** Deployed **Data Loss Prevention (DLP)** and **Data Protection Services (DPS)** patterns to strengthen data security and ensure compliance with industry regulatory standards.
- **Project Maintenance & Improvement:** Collaborated with **cross-functional Agile/DevOps teams** to drive process optimizations, resulting in a **15%** increase in system uptime and enhanced scalability; emphasized **continuous integration, automation, and strategic process** improvements.

Arbdossier

2023

Software Developer Intern

Mumbai, India

- **Strategic Collaboration:** Partnered with co-founders to design and develop software that **optimized legal workflows**, enabled **data-driven insights** and contributed to **business growth**.
- **Data Automation:** Engineered a Python-based **web scraping tool** using **Selenium** to extract court judgment data from **10+ Indian High Court** websites, accelerated legal research by **60%** and **reduced manual effort** by **40 hours** weekly.
- **Database Optimization:** Evaluated and recommended **SQL/NoSQL** solutions to manage large-scale datasets and enhanced database **performance and scalability**.

Hackveda Limited

2022

Python Developer Intern

Mumbai, India

- **Technical Proficiency:** Engineered an **email automation tool** to streamline **internship communications**, reduced **manual tasks** by **50%** and boosted **efficiency**. **Automated** personalized **email sending**, resulting in a **30% faster response rate**, and integrated **Google text-to-speech functionality** to extract **key information**, enhanced **accessibility** and **user experience**.
- **Project Leadership:** Led a **cross-functional team** of **10 interns** in a remote environment, overseeing **task allocation** and **coordinating meetings** to improve collaboration and ensure **project delivery** ahead of schedule.

PROJECTS

Deep Learning based Video Colorization

- Developed and implemented deep learning techniques such as **CNN** and **GAN architectures** to effectively colorize grayscale videos.
- Leveraged **Fréchet Inception Distance (FID)** and **Class-Dependent Classification (CDC)** scores as **evaluation metrics** to optimize visual fidelity and output accuracy.

College Predictor using Machine Learning

- Designed and built a web application using React to help students select their ideal college based on personalized recommendations.
- Implemented a machine learning algorithm (**Linear Regression**) and curated a **dataset of the past four years'** cutoffs to provide **data-driven, accurate recommendations** based on user input.

AWS Projects

- Architected and created different AWS projects such as integrating **AWS Cognito** for authentication, uploading files to **S3 via API Gateway**, developed a **chatbot with Amazon Lex**, and building a simple video streaming service using **AWS S3, CloudFront, and React**.