

# Amaan Shaikh

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## PROFESSIONAL EXPERIENCE

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Developed a **Highly scalable Compliance Recommendation Engine**:

**Systems Engineer** - Infosys [Working as Software Developer/Data scientist](1<sup>st</sup> Dec 2020 - Present)

- Took ownership of **developing RestAPI services**, which convert compliance guidance text to recommendations and display recommendations into custom reports with priority. It involved working in **distributed** and complex architecture. Worked on **multiple small features** like Extraction of a subject from sentences, Converting a simple sentence to an imperative sentence, and Splitting sentences in conjunction with the "and" word.
- **Tech Involved**: SpaCy, FastAPI, Docker container, Azure [AKS, DevOps, Cloud, Redis Cache, CI/CD], JSON, Logger, Pandas, Numpy, Matplotlib, Blackboard tech, Excel, Linux, Automation scripting, Unit testing.
- **Impact**: The solution helps to reduce the time of creating compliance reports from ~1+ months to 4+ weeks. Cost Reduced about ~2000+\$ per month.

## KEY SKILLS

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→ **Programming languages**: C++, Python, Java.

→ **Skills**: Data Structures and Algorithms, DBMS, OOPS concepts, Automation.

→ **Tools and Technology**: SpaCy, Git, Django, My SQL, Docker, GCP, Azure, Apache Spark, CI/CD.

## PROJECTS

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1. Learned Django framework by building an **Ecommerce website**: [[Hosted Link](#)] [[Source Code](#)]

- Designed and developed a dynamic Ecommerce website with backend and frontend for different roles:
  - **Customer side**: Home, Sign in, Signup, Product, Profile, Cart, Orders & Purchase related pages.
  - **Vendor/Admin side**: Administrator dashboard page & Product CRUD operations pages.
- **Tech Involved**: Django, HTML, Bootstrap, Django template language, SQLite, OOPS, Routing.

2. Research project on **Discount prediction** based on the **loyalty of customers using ANN**:

(Final Year Project July 2019 to Feb 2020)[[Source Code](#)]

- This project is to provide personalized discounts for Ecommerce customers. Analyzed features that define loyalty and trained an Artificial Neural Network (ANN) model on 70,000+ archive customer data with 84.8% accuracy.
- **Tech Involved**: Sklearn, Keras, FlaskAPI, HTML, Bootstrap, jQuery, MySQL, WordPress custom plugin.

3. Research project on Tomato & Potato plants **Health detection** using CNN: (3rd Year) [[Source code](#)]

- This project is to modernize agriculture. To achieve that, trained Convolutional Neural Network (CNN) model to classify a plant leaf photo as Healthy/Unhealthy with 97% accuracy using 10,000+ photos.
- **Tech Involved**: Pandas, Keras, Flask, Android Application (Java based), Website.

## ACHIEVEMENTS & CERTIFICATES

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- ★ Practicing Competitive Programming on [HackerRank](#) [5\* Problem Solver], [LeetCode](#) [Top 31% Contest rating], [GFG](#).
- ★ **Trained in Data Science** at Infosys.
- ★ Participated in **SIH (Smart India Hackathon - 2020)** as one of the Finalist teams.[[Certified](#)]
- ★ Data Science with **KNIME** tool. [[Certified](#)]
- ★ **Alteryx Designer Core**. [[Certified & badge](#)]
- ★ **DataBricks** Partner Training Developer Foundations and Essentials(Apache Spark). [[Certified & badge](#)]
- ★ Architecting with **Google Compute Engine**. (*Coursera*)(*Google Cloud*) [[Certified](#)]
- ★ **Google qwiklabs**: Google Cloud Essentials, Infrastructure, Kubernetes, and Networking GCP. [[Badges](#)]

## EDUCATION

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B.E. in Computer Science and Engineering (with 8.45 CGPA)

Walchand Institute Of Technology