

Shivang Kaul

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EDUCATION

SRM Institute of Science and Technology

2016-2020

B.Tech in Computer Science and Engineering (CGPA: 9.3/10.0)

First Class with Distinction

List of Relevant Courses: Mathematics - Calculus, Probability Theory, Data Structures, Algorithm Design, Object Oriented Programming (C++, Java), Computer System Architecture, Compiler Design, Artificial Intelligence, Machine Learning. Data Science and Big Data Analytics, Major Project (Research/Publication)

AISSE - Class 12th | CBSE

2016

Science with Computer Science (Percentage: 94%)

AISSE - Class 10th | CBSE

2014

(CGPA: 10.0/10.0)

WORK EXPERIENCE

ZS Associates India Pvt. Ltd.

Business Technology Solutions Associate Consultant (Sr. Data Engineer)

Jul 2022 – Present

- Spearheaded the design and development of a financial decision-making tool for a Fortune 10 client, effectively managing a **cross-functional team of 8+ members**. Successfully integrated data from Salesforce, SAP BW, ADLS, Snowflake, and flat files through a Databricks pipeline, ensuring data standardisation and adherence to governance policies.
- Orchestrated the migration of the financial decision-making tool to an automated Snowflake-Databricks ETL pipeline, achieving immediate cost savings of **over 2 million USD**. This initiative streamlined data processing, enhanced data quality, and ensured unwavering compliance with audit and security standards.
- Led conceptualisation and implementation of proofs-of-concept (POCs) for data modernization and transition to a **Data Mesh** for a Fortune 10 client. Led this major organisational transformation, acted as the enterprise-wide point of contact, and directed change management efforts, paving the way for several **multimillion-dollar initiatives**.

Tech Stack: Azure Data Lake Storage, Snowflake, Databricks, SQL, Python, Pyspark, Azure Data Factory

ZS Associates India Pvt. Ltd.

Business Technology Solutions Associate (Data Engineer)

Feb 2021 – Jun 2022

- Developed backend APIs using **microservice-based architecture** for a Fortune 500 Pharma client's proposal planning tool, enhancing proposal planning by providing a centralized platform for users to collaborate, estimate costs, and manage schedules. This resulted in improved efficiency, reduced proposal turnaround times, and increased proposal win rates.
- Devised and implemented a data pipeline that streamlined collaboration between Data Science and Front-end teams, enabling the seamless integration of machine learning models into business reports. This resulted in improved data flow, enhanced reporting capabilities, and enhanced decision-making capabilities by providing stakeholders with timely and actionable insights.

Tech Stack: PostgreSQL, Pyspark, Databricks, Airflow, NodeJS, ExpressJS, AWS

ZS Associates India Pvt. Ltd.

Associate - Intern

Aug 2020 - Jan 2021

- Conceptualized and developed backend pipelines for a tool to identify duplicate studies, optimizing the data cleaning process and enabling data scientists to focus on developing the NLP solution. This resulted in improved data quality, increased efficiency, and potential cost savings of **500k USD per year**.

PROJECTS AND PUBLICATIONS

Skin Lesion Detector Using Deep Convolution Networks (Publication)

[Link](#)

- Developed a deep learning model for skin lesion identification with 85% accuracy.
- Implemented a **CNN** model and hosted it on the cloud, thus, leveraging the high computing power of cloud, to show results even on low-performing mobile devices.
- Published a paper titled "*Hybrid Application Based Skin Lesion Analyzer Using Deep Neural Networks*" in IJPR Journal, Vol 24, Issue 08.

SRMpedia - Mobile Application

[Link](#)

- Designed and created a hybrid mobile app with Ionic Framework and NodeJS for SRM college students, leading to **10,000+** downloads on Android and iOS.
- Recognized by the Director and featured on the official University website for the entrepreneurial endeavour.

Grapido

[Link](#)

- Pioneered backend development for a **startup's** flagship professional social media app using Ionic Framework, NodeJS, and MongoDB stack.
- Collaborated in revamping the app's front end using Ionic, enhancing user experience and design.

SKILLS AND INTERESTS

Programming Languages/Concepts: Python, Javascript, C++, Data Structures and Algorithms

Web Technologies: HTML, CSS, NodeJS, ExpressJS, ReactJS

Cloud Services: AWS EC2, Amazon Redshift, S3, AWS Glue, Azure Storage, Azure Data Factory, Kubernetes

Databases: MySQL, PostgreSQL, MongoDB

Tools: Pyspark, Airflow, Jenkins, Databricks, Snowflake, Git, Postman

Languages: English (Professional Proficiency), Hindi (Native)

Interests: Reading, Playing the Guitar, Sketching, Playing Chess

VOLUNTEER EXPERIENCE

- **Volunteer at [Making the Difference NGO](#):** Spearheaded data verification and facilitated the distribution of oxygen cylinders and medicines during the COVID pandemic impacting 1000s of lives.
- Volunteered for **pro bono initiatives** in the **sustainability domain** as part of my role at ZS Associates. Spearheaded AWS cloud migration for a US-based NGO aiming to create a sustainable transportation ecosystem using EV-based public transportation initiatives.

ACCOLADES AND LEADERSHIP

- **ZS Champions Award** - Honoured to receive the Yearly Project Champion's award as part of the team's exceptional contribution to a project within the Medical Affairs Workstream and the immense client appreciation garnered during this endeavour.
- **Dean's Letter of Appreciation:** Awarded a letter of appreciation by the Dean of Engineering of SRM University for developing the SRMpedia app and founding the SRMpedia student club.
- **Best Paper Award:** Received the best paper presentation of the session award at the ICloT Conference 2020.
- **Organizer at Tech Fest (Aaruush):** Coordinated and executed events as part of the Digital domain at Aaruush, a renowned SRM tech fest, with a significant footfall of over 10k attendees.
- **Guest Speaker at Aaruush Tech Fest:** Delivered a **3-day workshop** as a guest speaker at SRM's Tech Festival Aaruush on Hybrid Application development using Ionic Framework. The workshop was attended by 100+ students.
- **Student Club Initiatives:** Actively volunteered in the student club community focusing on Machine learning and Hybrid Application Development. **Founded SRMpedia** student club and acted as **Team Lead for Think Digital**. Organized and delivered several workshops and talks as part of the student clubs.