# SONU KUMAR SHAH

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## SUMMARY

Diligent, focused and quick-learning software engineer with 2+ years of comprehensive experience in Banking and Finance technical sector. Responsible and articulate individual with strengths in python and supporting frameworks, a good knowledge in Big Data orchestration framework and ML algorithms. Adept at end to end software design & development including requirement gathering, documentation, infrastructure setup & coding.

## EDUCATION

**SIDDAGANGA INSTITUTE OF TECHNOLOGY**                          Aug, 2014 – May, 2018
B.E., Electronics and Communication Engineering                          Tumakuru, Karnataka
8.88 CGPA
Bachelor Project:
**EXOSKELETON ARM (Major Project):** This project is based on the design of a bionic arm that can emulate a pattern- like that of a normal person arm movement. The proposed exoskeleton arm has three degrees-of-freedom. Controlling the exoskeleton arm is performed by Voice Recognition Bluetooth module.

**INDO ASIAN ACADEMY**                          Aug, 2012 – April, 2014
Pre- University Course, Science (Physics, Chemistry, Maths, Computer Science)                          Bengaluru, Karnataka
85.16%

**KANCHANJUNGA ENGLISH SCHOOL**                          April, 2012
Nepal SLC Board                          Birgunj, Nepal
76.87%

## PROFESSIONAL EXPERIENCE

**Tata Consultancy Services, Bengaluru, India**
**System Engineer (SEP 2018-JUL 2020)**
**Project Description:** The Enterprise Analytics Platform (EAP) is a shared technology service offered by Chief Technology Officer (CTO) and co-owned by its users, known as Tenants. The EAP is built on a Hadoop platform, one of the leading Big Data technologies. It provides advanced data management and data analytics capabilities with an integrated set of best of breed data science tools. Huge datasets are loaded from different tenants. This enables the EAP to be able to support the creation of unique data insights (e.g., predictive analytics) at greatly reduced cost and improved time to market when compared to traditional data mining techniques.

**Elastic Run, Bengaluru, India**
**Associate Engineer(OCT 2021- Present)**
**Project Description:** ANUMAN is a technology based on time series forecasting method which is used for predicting the future sales by observing the pattern and recurrent trends at various interval of time. It includes various dashboards such as Training Model, Projection, Forecast Report, Performance Analysis and Monitoring Dashboards. MCS(MariaDB Column Store) is a columnar storage engine for online analytical processing (OLAP), data warehousing and business intelligence. It implements cross-engine joins to join ColumnStore tables with tables using row-based storage engines, such as InnoDB.

**Roles and Responsibilities**:
- Background in all phases of software engineering including Analysis, Design, Coding, Testing, and Implementation.
- Performing an analysis on the vast number of data stores and uncovering insights.
- Researching and implementing appropriate ML algorithms and tools.
- Organizing data into usable formats, creating visualization of data and generating information and insights from datasets.
- Developing data processing tasks using PySpark such as reading data from external sources, merge data, performing data enrichment and loading it in to target data destinations.
- Loading disparate datasets, conducting pre-processing services using Hive and delivering Big Data Solutions.
- Investigating and analyzing alternative solutions to data storing, processing, etc. to ensure most streamlined approaches are implemented.
- Designing and implementing high availability and low latency applications, data protections and security features.
- Keeping the information confidential.

# TECHNICAL SKILLS

**Programming Languages:**
Python, C, C++
**Big Data:**
Hadoop, PySpark, Spark, Hive, HDFS-MapReduce, Impala
**Databases:**
MySQL, NoSQL (Mongo DB)
**Machine Learning:**
ML Algorithms, Supervised, Unsupervised, Data Modelling, Data Visualization, Statistical Modelling
**Tools and Technologies:**
SQL Developer, MT Putty, Control-M, AWS
**Operating System:**
UNIX, Windows
**IDE/Editors:**
Visual Studio, Jupiter Notebook, Pycharm, Spyder

# ACHIEVEMENTS

- Won 1st prize in ROBORACE competition organized by SIT, Tumakuru on 27th Feb, 2016.
- Won 2nd prize in MEGA competition organized by Robokart in college.

# ADDITIONAL INFORMATION

- **Father's Name:** Jagu Sah Turha
- **Date of Birth:** 19th April, 1996
- **Sex:** Male
- **Permanent Address:** Ramtole-7, Near Railway Road, Birgunj, Province no.2, Nepal
- **Languages:** English, Hindi, Nepali and Bhojpuri