

Sahil Kumar Srivastava

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EDUCATION

- **Chandigarh University** Mohali, India
Bachelor of Engineering - Computer Science; GPA: 7.9 *July 2022 - June 2026*
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases
Relevant Coursework: OCI Generative AI Professional , Power BI Data Analyst , Python Data Structures , Big Data and Processing

SKILLS SUMMARY

- **Languages:** C, C++, Python, Java, Javascript, Dart, Kotlin, SQL, Solidity, TypeScript, JavaScript, React, Flutter
- **Data Science:** NumPy, Pandas, Scikit-learn, Scipy, Matplotlib, Seaborn, TensorFlow, Pytorch, OpenCV, Django
- **Tools:** Kubernetes, Docker, GIT, PostgreSQL, MySQL, SQLite, Power BI, Tableau
- **Platforms:** Linux, Web, Windows, Arduino, Raspberry, AWS, GCP, Azure Cloud, IBM Cloud, Matlab
- **Softwares:** Github, Postman, Android Studio, QGIS, GEE, Firebase , MongoDB, Hadoop, Spark, Apache Cassandra , Scala
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- **UNSW-University of New South Wales** Sydney, New South Wales, Australia -Remote
Research Intern- (GIS and Deep Learning) *June 2024 - Ongoing*
 - **GIS Integration :** Leveraging GIS for detailed mapping and spatial analyses of settlement patterns, identify ancient river channels and resource distribution; Utilizing high-resolution images from Landsat, IKONOS, and WorldView
 - **Extracting Relevant Archeological sites:** Identified 20+ potential sites through Multispectral image Analysis
 - **ML Integration:** AI integration reduced the error rate in feature identification from 15% to 4%, a 73% reduction
- **Antern** Remote
ML Trainee (Apprenticeship) *Nov 2022 - Mar 2023*
 - **Sentiment Analysis on Social Media Data:** Developed sentiment analysis model that automatically classifies sentiments expressed in social posts as positive, negative, or neutral. Extracted social media posts using Twitter API.
 - **Features:** Implemented text normalization techniques like tokenization, lemmatization, and removal of stop words and special characters. Employed techniques like word embeddings and LSTM layers.
 - **Impact:** Achieved an accuracy of 85% and an F1-score of 0.82, indicating precision in classifying sentiments.

PROJECTS

- **Automated Data Pipeline for Real-Time Financial Analytics:**
- Engineered a robust data pipeline leveraging Python, Apache Kafka, TensorFlow, PostgreSQL, Docker, Jenkins, Git, and BASH Scripting for real-time data ingestion, processing, and analysis.
- Designed and implemented a microservices-based architecture using Docker to ensure modular scalability and independence of pipeline components.
- Integrated Apache Kafka to facilitate seamless real-time data streaming and buffering; Deployed TensorFlow models for predictive analytics on processed data in real-time.
- Established a CI/CD pipeline with Jenkins for automated testing and deployment, ensuring rapid updates to the data pipeline.
- Achieved data processing and analysis with less than 10 seconds of latency, significantly enhancing responsiveness in financial analytics tools.
- **PRASARA :**
- Spearheaded the creation of an innovative online platform promoting gender equality and empowering women in sports through technology and financial support.
- Developed user-friendly registration, multimedia profile creation, and crowdfunding mechanisms to support athlete development and community engagement.
- Implemented using HTML, CSS, JavaScript, React.js, Node.js, Express.js, MongoDB, Stripe, Google Analytics, and WebSocket (Socket.io) technologies.

PUBLICATIONS

- **Smart Pillow Patent (Patent Number- IN 202311048964) :** Smart pillow alarm clock that utilizes an infrared sensor to detect human presence and incorporates a water sprinkler system aims to activate the human senses in a more effective way.
- **Smart Bulb Patent (Patent Number - IN 202311054419):** customized light bulb with a mechanical head to detect activity and human presence in a specific region of the room; incorporates ML algorithms triggered by videographic data
- **Book Chapter (Towards a Greener future) :** How additive manufacturing and bio-based materials are saving the environment ; DOI: <https://doi.org/10.1201/9781003406488> ; eBook :ISBN9781003406488

LEADERSHIP / EXTRACURRICULAR / HACKATHONS

- Awarded 1st Place in Titan *TechNxt Futurewear Techathon*, *NSS (jagriti)* and *EY Parthenon Smart City Innovation*
- TEKATHON 2.0 winner in *Chandigarh University* among 700 Participating Teams
- Organized Solve-a-thon, a sustainability ideathon at Chandigarh University
- Anchored Professional Communication Workshop for 200+ students