SOURAV SINGH

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I am seeking a position in the field of Data and AI where I can leverage my expertise in data analysis using Python, Pyspark and SQL, as well as my experience in building, testing and deploying AI-driven solutions on cloud platforms like AWS and Azure. I am aimed to contribute to impactful projects while enhancing my knowledge of emerging technologies and advancement in Data and AI.

EDUCATION

Veer Surendra Sai University of Technology   **Burla, Odisha, India**
Bachelor of Technology, Civil Engineering, **CGPA: 8.69/10**   *Jul 2017 - June 2021*
Thesis: Prediction of Mechanical Strength of Concrete using Machine Learning

EXPERIENCE

Accenture Solutions Private Limited   **Bengaluru, Karnataka, India**
Senior Analyst   *November 2024 - Present*
- Design Developing and optimizing Python scripts to automate client tasks and implement new features based on evolving business requirements.
- Managing CI/CD pipelines using Github actions for seamless deployments across multiple environments, ensuring successful deployment in AWS.
- Monitoring and troubleshooting AWS components integrated with Kafka, ensuring efficient producer-consumer communication and middleware stability.
- Engaging in GenAI Hackathons and activities to innovate AI/ML solutions, focusing on machine learning, deep learning, and agentic AI advancements.
- Collaborate with cross-functional teams using Agile to deliver impactful business solutions.

Cognizant Technology Solutions Private Limited   **Bhubaneswar, Odisha, India**
Software Engineer   *July 2021 - November 2024*
- Perform data analysis using Python (Pandas, Numpy), Pyspark and SQL on Azure Databricks and AWS RDS for scalable processing and insights.
- Built ML, DL, and GenAI models in Python, deployed APIs, and utilized Azure Databricks and ML for internal challenges.
- Migrate data from legacy systems to cloud environment like Azure (Blob Storage, SQL database) using Python, Azure data factory and Databricks.
- Design online screen of mainframe terminal screen using CICS and written its backend functions using COBOL with DB2-SQL and execute jobs using JCL.

VOLUNTEERING
- **Smart India Hackathon:** Design Mentor and Pre-Screening Evaluator in 2024 and Evaluator in 2023.
- **Statathon:** Pre-Screening Evaluator in 2025.

SKILLS
- **Programming:** C++, CICS, COBOL, HTML, JCL, Python (Including Framework), Pyspark and SQL
- **Technology:** AI/ ML, Cloud Technology, Middleware, Devops and ETL

PROJECTS
- Strength of Concrete using Machine Learning : https://100ravsingh.github.io/Btech_Final_Year_Project/
- Road Quality : https://100ravsingh.github.io/Road-Quality-Project/
- ChequeScan : https://100ravsingh.github.io/ChequeScan/

AWARDS and GRANTS
- Winner of Smart India Hackathon 2020 Hardware Edition, Organised by AICTE (Govt of India)   *Feb 2021*

PUBLICATIONS
- Evolutionary optimization of machine learning algorithm hyperparameters for strength prediction of high-performance concrete https://link.springer.com/article/10.1007/s42107-023-00698-y

CERTIFICATIONS
- **Google Cloud:** Professional Machine Learning Engineer, Associate Cloud Engineer, Cloud Digital Leader
- **Microsoft Azure:** AZ-900, AI-900, DP-900