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 India Private Limited — **Bengaluru, Karnataka, India**
ML Engineering Senior Analyst — *November 2024 - Present*
- Design and deploy large-scale data pipelines using Python, Pyspark, Azure Data Factory and Databricks for efficient data processing and management on cloud platforms like Azure and AWS.
- Develop and deploy AI/ML models using advanced machine learning algorithms with Python, leveraging cloud services like Azure ML, GCP Vertex AI and AWS Sagemaker.
- Build scalable data processing applications with Python, Pyspark and SQL on Azure Databricks and AWS for actionable business insight.
- Collaborate with cross-functional teams using Agile to deliver impactful business solutions.

Cognizant Technology Solutions India PVT LTD — **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.
- Design ML, DL and GenAI model in Python, deploy APIs, and use platforms like Azure Databricks and Azure machine learning 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.

SKILLS

- **Programming:** C++, CICS, COBOL, HTML, JCL, Python (Including Framework), Pyspark and SQL
- **Technology:** AI/ ML, Cloud Technology (AWS, Google Cloud and Microsoft Azure), 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