

Sangram Biplab Manabendra Thakur

Software Engineer Analytics | Microsoft Certified Data Engineer

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GitHub – <https://github.com/sangramthakur>

Summary:

I am an experienced Software Engineer with a passion for building machine-learning solutions. I have expertise in MLOps and experience in developing production-quality software. I am skilled in working collaboratively with cross-functional teams and delivering innovative solutions. I am also knowledgeable in cloud computing technologies such as AWS, Azure, and GCP.

Skills:

Strong knowledge of MLOps, machine learning, and docker.

Proficient in object-oriented languages (Python and PySpark).

Experience with CI/CD tools such as Jenkins and GitHub Actions.

Familiarity with cloud computing platforms such as AWS, Azure, and GCP.

Experience deploying machine learning models via MLOps Platforms (SageMaker, VertexAI, Databricks, or other)

Experience with streaming, and batch-processing frameworks.

Strong database programming skills using SQL.

Excellent problem-solving and analytical skills.

Strong collaboration and communication skills.

Experience:

1. Tech Mahindra

Software Engineer Analytics, January 2022 - to date

Client - BNSF Railway

- Design and implement secure and scalable infrastructure in Azure cloud, resulting in improved system availability, reliability, and performance by 70%.
- Build and maintain CI/CD/CT pipeline across Azure cloud platform for multiple data science projects, resulting in reduced deployment time by 50%.
- Automate infrastructure provisioning, demand forecasting, and capacity planning.
- Build tools and automation to improve system availability, reliability, performance, monitoring, and scalability.
- Envisioned and implemented best MLOps/DevOps tools and automation, resulting in increased efficiency and productivity for the team.
- Develop Python scripts to automate software development and deployment processes.
- Utilize containers and orchestration tools such as Docker, Kubernetes, and to manage application deployment.
- Developed and deployed machine learning models using cloud-based services (AWS).
- Conducted data analysis, model training, selection, debugging, and deployment.
- Worked on designing and implementing A/B testing.
- Developed and maintained databases, designed schemas, and processed large datasets.
- Conducted statistical analysis, time-series analysis, and NLP methods to derive insights.
- Worked on CI/CD automation, containerization (Docker), and orchestration (SageMaker).
- Used Git as a versioning system and Github suite to manage the software development process.

2. Computing Mind Technologies, Faridabad (<http://www.w.computingmind.technology/>)

Data Scientist, November 2020 - January 2022

- Developed and maintained software applications for System Integration, Application Development, and Data-Warehouse projects. (Natural Language Processing Application)
- Managed database programming using SQL for data warehousing projects.
- Worked with Git for source code management.
- Collaborated effectively with highly technical resources in a fast-paced environment.
- Developed machine learning models using Python and various libraries such as Spacy and Transformers.
- Implemented OCR to extract text from resumes and categorize the information into required fields.
- Deployed machine learning models on Google Cloud Platform using Docker.
- Developed interfaces for the machine learning models using Streamlit and Flask.

- Collaborated with cross-functional teams to design, develop, and deploy scalable solutions.
- Optimized the machine learning models for accuracy, speed, and scalability.
- Developed and maintained data pipelines for large-scale datasets.
- Reduced 800 man hours per week by automating the data labelling process.
- Reduced the turnaround time by at least 70% by automating the data labelling process.
- Charged per example point instead of per annotation point to reduce unnecessary data labelling.

Projects:

- Resume parsing with Python OCR, Spacy and deployment on Google Cloud Platform.
- Demo Class Booking Chat Bot (NLP, Amazon Lex and Facebook messenger)
- Abstractive Text Summarization using the Transformers-BART Model project on Google Cloud Platform.

3. Bhadani Quantity Surveyors and Training Pvt. Ltd., Bengaluru Head - Marketing and Sales, July 2017 - October 2020.

- Led a team of marketing and sales professionals in conducting data analysis and creating interactive dashboards to support data-driven marketing strategies.
- Developed and maintained Tableau dashboards to visualise key performance metrics and trends.
- Conducted data modelling and statistical analysis to identify trends and patterns in large datasets.
- Collaborated with cross-functional teams to analyse and interpret data and provide insights to stakeholders.
- Developed and maintained data pipelines and workflows to ensure data accuracy and completeness.
- Designed and executed A/B testing experiments to optimise marketing campaigns and increase ROI.
- Analyse data and translate it into actionable conclusions.
- Identify trends and opportunities for growth through analysis of complex data sets.
- Developed and executed marketing and sales strategies to drive revenue growth and market share.
- Develop a growth strategy focused both on financial gain and customer satisfaction.
- Developed a high-performance team of sales agents, leading to a 31% increase in productivity.
- Sales and Operations Planning using Analytical tools.

4. Basanta Kumar Biswal - A class Odisha PWD Contractor, Puri Civil Site Engineer - August 2013 - June 2017

- Civil execution works at the site, including safety, quality and schedule.
- Preparation of Monthly Progress Reports, DPR & RMC reports.
- Quantity Surveying, Estimation and Bar Bending Schedule.
- Explaining client technical details during the sales process to the client.
- Monthly Reconciliation of materials and their requirements.

PUBLICATION

- "Modelling of the Strength of High-Performance Concrete using Machine Learning Models", International Journal of Science & Engineering Development Research (www.ijedr.org), ISSN:2455-2631, Vol.6, Issue 5, page no.174 - 179, May-2021, Available: <http://www.ijedr.org/papers/IJEDR2105032.pdf>

CERTIFICATIONS or AWARDS

- Azure Data Fundamentals (DP-900) by Microsoft.
- Azure Fundamentals (AZ-900) by Microsoft.
- Azure Data Engineer Associate (DP-203) by Microsoft.
- Tableau Desktop I: Fundamentals by The Tableau Learning Centre.
- Machine Learning with Python Issued by Cognitive Class Powered by IBM Developer Skills Network.

EDUCATION

- GIET University, Gunupur - Master of Technology (M.Tech.) in Construction Technology and Management - 2019-2021
- McCombs School of Business at The University of Texas at Austin and Great Lakes, India. - Post Graduate Program in Data Science and Business Analytics - 2019-2020
- Gandhi Institute of Engineering and Technology (GIET), Gunupur - Bachelor of Technology (B.Tech.) in Civil Engineering - 2009-2013
- Kalinga Bharati Residential College, Cuttack - +2 Science - 2007-2009
- Kendriya Vidyalaya, Sundargarh - Class 10th - 2007