

Ansh Agarwal

Software Development Engineer, ArcelorMittal

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[Ansh Agarwal | LinkedIn](#)

EXPERIENCE

Benthon Labs, Noida, U.P. – Software Engineer

AUG 2022 - OCT 2022

- Practical knowledge of building ETL pipelines using Azure Cloud Services. Familiarity with enterprise critical AWS cloud services and implementation experience for serverless models.
- Developed RESTful APIs using serverless AWS Lambda and exposed the endpoints via API Gateway.
- Delivering client user stories in production while ensuring complete code coverage, PEP8 conventions with standard CI/CD deployment strategies.

AM/NS India, Hazira, Gujarat – Software Engineer

JAN 2021 - JULY 2022

- Implementation of Real-time in-house data communication pipelines for ETL operations, Async REST API servers, Schema configurations, EDA and Process Automation workflows development, deployment and orchestration.
- Responsible for Windows VM configurations, development environment setting and feature enhancements/CRs.

AM/NS India, Hazira, Gujarat – Associate Software Developer

JUL 2020 - JAN 2021

- Learned standardized operations & techniques of RPA namely UiPath, RE Framework (REF) for transactional Business process development, workflows creation, Cloud Orchestration, Active Directory and Mailing Integrations.

Essar Steel (now AM/NS India), Gujarat – Data Science Intern

APR 2019 - AUG 2019

- Responsible for exploratory data analysis of ongoing industrial data sets, Data streaming pipeline creations and development of health monitoring scripts in python to monitor production applications.

EDUCATION

Dayalbagh Educational Institute, Agra — B. Tech

JUL 2017 - MAY 2020

Electrical Engineering and Computer Science, CGPA – 8.96

Dayalbagh Educational Institute, Agra — Diploma

JUL 2014 - MAY 2017

Electrical Engineering, CGPA – 9.6

REI Intermediate College, Agra — High School

JUL 2012 - MAY 2014

Science and Mathematics, CGPA – 9.7

SKILLS

Programming

- Python • OOPS
- Shell Scripting • SQL • C++
- MongoDB • Flask • Django
- Git • Vagrant • Docker
- AWS Serverless • HTML5
- CSS • Azure Data factory

Technologies

- Backend API Design
- Exploratory Data Analysis
- ETL
- Robotic Process Automation
- Cloud Computing

Software Principles and Tools

- SDLC
- Agile Development
- Software Testing
- Deployment Orchestration
- Jira
- Pycharm
- Github

Soft Skills

- Email etiquette
- Client Interactions
- Problem solving

LINKS

[Ansh Agarwal HackerRank](#)

[Ansh Agarwal GeeksforGeeks](#)

[Ansh Agarwal Github](#)

PROJECTS

Blast Furnace Energy Prediction Application – 2022

- Process Flow understanding with PPDAC cycle and requirement gathering.
- Development & Deployment of real-time ETL RDBMS based data streaming architecture.
- Performing Exploratory Data Analysis (EDA), Data cleaning, & Transformation on raw data.
- Making data ML ready for prediction purposes for senior Data Scientists.
- Creating Backend python standalone services using NSSM for syncing data with UI in real-time.
- **Project Impact** – Achieving industry grade operational stability for critical decision making and reduced 2 technical operators dependency.

Coils Welding Analysis – 2021

- Developed Script to read daily processed/welded coils data and creating a centralized data for further EDA using Python.
- Performed exploratory data analysis both graphically and analytically using high performance python packages – Pandas, Seaborn, Matplotlib, Numpy and Orange.
- **Project Impact** – Early Detection of anomalies in machine parameters saved cost by 60–70% from the day of quality inspection/audit and Machine parameters year-wide insights helped business in segregating the False classified Welds.

Accounts Payable Invoice Digitization — 2021

- Built a critical Automated SAP payment clearing process commonly referred as Invoice Posting (PAN India) using Python and UiPath for Accounts Payable Department of AM/NS India.
- **Project Impact** – o In-house development of project saved cost by 1 crore and overall project was developed at no-cost within organization. o System automated 75 % of invoice posting process saving 10–11 FTEs. o System is capable to perform auto-payment of approx. 1000 invoices every day.

Taxation Reconciliation Automation – 2021

- Architected, Designed and Developed End-to-End Reconciliation application to detect TDS related exceptions performed on invoices.
- Built extensively on Python, including isolated components of UiPath using software design philosophy SOC.
- **Project Impact** – Detected expense and vendor related critical exceptions on over 35 % of invoice documents in no-time which would have taken 5 FTEs for 2–3 members to do such activity.

CERTIFICATIONS

Python ([HackerRank](#))

EDA Toolbox ([DataCamp](#))

SQL – Data Science ([LinkedIn](#))

Agile Foundations ([LinkedIn](#))

ACHIEVEMENTS

Finalist in Smart India Hackathon (2019)

Designed Auto Gas Switchover System for Gas Authority of India Limited (GAIL).

3rd at Texas Instruments organized event Hacking for Humanity (2017)

Designed Medicine ATM Dispenser using embedded systems at zero cost.

International Conference Paper presentation, San Diego, USA (2017)

On Theme – *Spinning Top Hypothesis*

Poster Presentation IEEE Conference

On Theme – *Nick Bostrom Study on Super Intelligent Machines and Man.*

ORGANIZATIONS

System Society of India

NOV 2016 – Present

LANGUAGES

English, Hindi