

Samarth Agrawal

Software Engineer

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Summary

Dedicated entry-level Software Development with 6 months of internship experience in Data Science and Machine Learning. Identified key metrics, analyzing data streams, and demonstrated customer facing skills by effectively communicating client needs to senior developers. Proficient in Mathematics, Programming Languages and Computer Engineering.

Education

- 2020-2024 **Bachelor of Technology in Computer Science**, Ajay Kumar Garg Engineering College, Gaziabad, SGPA: 8.0
2018-2019 **Senior Secondary (Class XII)**, St. Queen Mary Public School, Agra, 86%
2016-2017 **High School (Class X)**, St. George's College, 85%

Work Experience

- May 2023 - Jul 2023 **Research Intern**, RCTS, IIIT Hyderabad, India | Certificate Link
- Developed an OCR Parser from Large Data sets utilizing Deep Learning and Natural Language Processing (nlp) to seamlessly transition paper-based attendance records into a digital format, enhancing data precision and management within the 'Selca' project. Achieved a 40% increase in data accuracy.
 - Designed and implemented Calendar Features using React.js and material-ui, seamlessly integrating user-friendly academic event scheduling components into the 'Selca' application. Streamlined student organization and planning, resulting in a 50% reduction in scheduling conflicts.
 - Created a collaborative learning environment by instructing 1st-year students at IIIT Hyderabad in the fundamentals of Python and Machine Learning, reducing the learning curve by 40%.
- Sep 2022 - Dec 2022 **Machine Learning Intern**, Artizence, Lucknow, India | Certificate Link
- Implemented an innovative Resume Selection System leveraging Python, Machine Learning, and Recommender Systems to optimize the hiring process. Successfully matched job requirements with the most suitable applicants, enhancing efficiency and customer-facing interactions.
 - Collaborated on a team to create a streamlined resume parser using Python and Data Analytics. Applied analytical and pragmatic methods, engaging in multi-tasking responsibilities, reducing resume review time by 30%. Implemented statistical modeling, achieving a 20% increase in candidate-applicant matching accuracy for a more effective hiring process.
- Sep 2021 - Oct 2021 **Training**, Froyo Technologies, Noida, India | Certificate Link
- Industrial Training in Machine Learning, Deep Learning and Computer Vision from Python.

Skills

- Programming Python, C/C++, Java, Data Structures and Algorithms
- AI Machine Learning, Deep Learning, Natural Language Processing (nlp), Computer Vision, Scipy, Tensorflow
- Tools and OS Git, Jupyter Notebook, Google Colab, Azure

Projects

Netflix Recommender System, [GitHub Link](#) [Video Link](#)

- Developed a Netflix Recommender System to offer users movie recommendations based on similarity. The project involved WebScraping, Data Preprocessing, Feature Engineering, and Sentiment Analysis to elevate recommendation accuracy.
- Utilized the Cosine Similarity in Recommendation Systems model to deliver precise movie recommendations, ensuring that users discover content similar to their preferences, with the project's backend powered by Flask for seamless user interaction.

Zomato-Restaurant Ratings, [GitHub Link](#) [Project Link](#)

- Restaurant rating system using Flask and Machine Learning, leveraging eight key attributes for rating predictions.
- Employed a comprehensive approach, including data analysis, feature engineering, and model comparisons, to enhance prediction accuracy.

Research Experience

Published "Kabaddi: Quantitative approach to Machine Learning model in Pro kabaddi", at ICCWC, [Link](#)

Presented "Binary classification of Epilepsy using Classical Machine Learning Algorithms and Ensemble Learning Techniques", International conference on AKGEC 2023, [Link](#)

Accomplishments

Smart India Hackathon Finalist - 2023, Kolkata

Runner-up in Fundamentals of Modern Machine Learning Course, IIIT Hyderabad, | [Certificate Link](#)

Selected among Best 5 teams globally in United Nations Development Programme(UNDP) Hackathon, | [Certificate Link](#)