

# Samhit Prakash Nayak

[samhit563@gmail.com](mailto:samhit563@gmail.com) | +91-6363247163 | [LinkedIn](#) | [GitHub](#) | [LeetCode](#) | [Portfolio](#) | Bengaluru, India

## SUMMARY

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Motivated Master of Computer Applications student with a strong foundation in machine learning and MLOps. Proven ability to build end-to-end data science and MLOps projects, from data analysis with Pandas to model containerization with Docker. Recently completed a Microsoft co-branded internship in the Foundations of AI, where he gained a solid understanding of core concepts like supervised learning, Generative AI, and Computer Vision.

## EDUCATION

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Master of Computer Applications | BMS Institute of Technology and Management, Bengaluru **[CGPA: 8.95]**

## SKILLS

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- **Programming Languages:** Java, Python
- **Data Science & ML:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, NLTK, EDA, Feature Engineering
- **MLOps & Deployment:** FastAPI, Docker, Git, GitHub
- **Core Concepts:** Data Structures & Algorithms (DSA), Database Management Systems (DBMS)
- **Tools:** Jupyter Notebook, VS Code

## PROJECTS

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### End-to-End House Price Predictor | [GitHub](#) |

- Developed a regression model to accurately predict housing prices, comparing Linear Regression and Random Forest models.
- Achieved a superior R-squared score of 0.7144 with the Random Forest Regressor.
- Utilized Python, Pandas, NumPy, Scikit-learn, and Matplotlib for data manipulation, analysis, and visualization.

### Kindle Reviews Sentiment Analysis | [GitHub](#) |

- Engineered an NLP model to classify thousands of customer reviews as positive or negative.
- Performed data cleaning and used TF-IDF vectorization to prepare the text data for machine learning.
- Visualized sentiment distribution to identify key phrases and sentiment trends in the dataset.

### MLOps Project: Hate Speech Detection API | [GitHub](#) |

- Built a complete MLOps pipeline for a hate speech detection API using FastAPI and Docker.
- Addressed class imbalance with SMOTE, improving the recall on the minority hate speech class from 17% to 54%.
- Containerized the entire application, including the trained model and vectorizer, for deployment and portability.

## PROFESSIONAL EXPERIENCE

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### Foundations of Artificial Intelligence Intern | Edunet Foundation in collaboration with Microsoft

- Completed an intensive 4-week program on core AI/ML concepts and their real-world applications.
- Gained a solid understanding of supervised learning, Generative AI, and Computer Vision using Azure demos.
- Developed a project from a real-world problem statement under the guidance of an industry mentor.

## CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

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- Java with Data Structures and Algorithms | [Apna College](#)