

# STUTI BIMALI

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## PROFESSIONAL SUMMARY

Master's student in Data Science with 1.5 years of research and hands-on experience in AI and data analysis. Proficient in programming languages such as Python, R, and SQL, with expertise in Hadoop, Tableau, statistical modeling, and advanced machine learning techniques. Successfully applied Convolutional Neural Networks (CNN) in projects focused on fire detection and other key domains, demonstrating strong problem-solving skills and technical acumen. Passionate about leveraging cutting-edge machine learning methodologies to address complex challenges in the health or finance sectors. Actively seeking opportunities to transform academic research into impactful, data-driven solutions in a dynamic professional environment.

### CORE COMPETENCIES:

#### Data Science & Machine Learning:

▪ Statistical Analysis ▪ Predictive Modeling ▪ Big Data Analytics ▪ Convolutional Neural Networks (CNN) ▪ Feature Engineering ▪ Model Optimization

#### Programming & Tools:

▪ Python ▪ R ▪ SQL ▪ C ▪ Hadoop ▪ Tableau ▪ Power BI ▪ NoSQL ▪ AWS

#### Research & Analysis:

▪ Data Science Pipelines ▪ Model Architecture Design ▪ Data Cleaning & Preparation ▪ Exploratory Data Analysis (EDA)

#### Data & AI Product Management:

▪ Business Planning ▪ Product Lifecycle Management ▪ Cross-functional Collaboration ▪ Deployment & Monitoring ▪ Stakeholder Communication

## EDUCATION

Tagliatela College of Engineering, University of New Haven ▪ West Haven, CT

August 2024 (expected 2026)

*Master of Science in Data Science*

#### ▪ Coursework:

▪ Machine Learning ▪ Big Data ▪ Data Visualization ▪ Deep Learning ▪ Natural Language Processing (NLP) ▪ Leadership in Data & AI Products ▪ Data Ethics ▪ Artificial Intelligence ▪ Data Engineering

#### ▪ Tools:

▪ Python ▪ R ▪ SQL ▪ TensorFlow ▪ Hadoop ▪ Tableau ▪ AWS Athena ▪ Microsoft Azure ▪ Docker & Kubernetes

#### ▪ Achievements:

▪ Dean's Scholarship

New Horizon College of Engineering, Visvesvaraya Technological University (VTU) ▪ Bangalore, Karnataka, India

*Bachelor of Engineering in Computer Science and Engineering*

## PROFESSIONAL EXPERIENCE

iAssist Innovations Labs ▪ Bangalore, Karnataka, India

June 2023 – July 2024

*AI Scientist, Interpretation (Developer)*

- Designed and implemented a system to analyze hospital bills, enabling banks to efficiently manage and process insurance claims, significantly enhancing customer experience.
- Automated key processes in a major project, increasing the automation rate from 5% to 30% in the initial stages, and trained the team to build on this progress for sustainable growth.
- Developed and deployed algorithms to optimize bill processing in healthcare, improving data accuracy and operational efficiency through advanced data analysis techniques.
- Supported the QA team by resolving real-time issues within five minutes, minimizing downtime and ensuring smooth project execution.
- Automated QA processes for data extraction, ensuring high data integrity and reliability for subsequent research and application development.
- Collaborated with cross-functional teams to deliver innovative solutions under tight deadlines, demonstrating technical expertise, problem-solving skills, and a proactive approach to innovation.

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GitHub: [github.com/stutibimali](https://github.com/stutibimali)

**Cognizant ▪ Bangalore, Karnataka, India**

September 2022 – January 2023

*Programming Analyst, Intern*

- Conducted in-depth data analysis and reporting, providing actionable insights that supported data-driven decision-making in cross-functional teams.
- Collaborated with multidisciplinary teams to analyze and interpret large datasets, enhancing project outcomes through a research-oriented approach to problem-solving.
- Gained hands-on experience in core data science concepts and tools, including machine learning algorithms, SQL, Python, and Java.
- Applied theoretical knowledge to real-world data problems, designing and implementing models for data analysis and processing.
- Developed Java applications for data management, gaining proficiency in object-oriented programming and data structures.
- Presented learning outcomes and conceptual models to the team, refining communication and presentation skills.

## PORTOFOLIO

**PROFESSIONAL Portfolio ▪ West Haven, United States**

Professional Portfolio | West Haven, United States

- Access my professional portfolio: <https://stutibimali.github.io/portfolio/>

## PUBLICATIONS

- Stuti Bimali, P Rachana, B Rajalakshmi, Tushar Bhat, Sukhmanjeet Kaur. (2022). *Comparative Study of Different Methods for Fire Detection Using Convolutional Neural Network (CNN)*. IEEE.

## PROFESSIONAL CERTIFICATIONS & MEMBERSHIPS

|   |                                 |                            |
|---|---------------------------------|----------------------------|
| <b>Data Science Virtual Experience Program</b>      | <i>Forage - British Airways</i> | February 2023 – March 2023 |
| <b>Data Analytics Consulting Virtual Internship</b> | <i>Forage - KPMG</i>            | February 2023              |
| <b>Graduate Rotational Internship Program</b>       | <i>The Sparks Foundation</i>    | May 2022 – June 2022       |
| <b>Internship on Data Science</b>                   | <i>SmartKnower</i>              | April 2021– May 2021       |

## LANGUAGES

|                                      |                                   |               |
|--------------------------------------|-----------------------------------|---------------|
| <b>Introduction to R</b>             | <i>Great Learning Academy</i>     | July 2024     |
| <b>ML - Dimensionality Reduction</b> | <i>Cognitive Class - IBM</i>      | June 2022     |
| <b>Data Science with Python</b>      | <i>SkillUp</i>                    | December 2021 |
| <b>Data Science Math Skills</b>      | <i>Coursera - Duke University</i> | August 2020   |