

# BHOOMIKA PATHAPATI

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 [MyPortfolio](#)

## EDUCATION

**Master of Science - Data Science**, Indiana University Bloomington  
GPA: 3.82/4.0

Aug 2023 - May 2025

**Bachelor of Technology - Computer Science**, REVA University  
GPA: 9.12/10.0

Aug 2019 - May 2023




## SKILLS

Languages	Python, R, MATLAB, HTML, CSS
Frameworks/Libraries	Pandas, NumPy, Scikit-learn, TensorFlow, NLP, ReactJS, Django, PHP
Databases	SQL, MySQL, PostgreSQL, MongoDB, DDL
Machine Learning/Data Science	Machine Learning Models, Statistical Analysis, Data Wrangling, Data Analysis, Data Modeling, Data Pipeline Design, Data Warehousing, Data Visualization
Tools	GitHub, Docker, Kubernetes, AWS, Azure, Hadoop, Hive, GCP, ETL Pipelines, Informatica, SSIS, Tableau, Power BI, Excel, Jupyter Notebook, Android Studio, Visual Studio Code, Selenium, Spark
Certifications	AWS Cloud Practitioner, Android using Kotlin Bootcamp, Python Spoken Tutorial Project(IIT Bombay), Certificate of Appreciation(Google Cloud Communities), Introduction to Career Skills in Data Analytics (LinkedIn Learning)
Soft Skills	Time Management, Teamwork, Communication, Problem Solving, Leadership, Accountability

## EXPERIENCE

<b>Data Engineer</b> Project 990	Aug 2024 - Present
<ul style="list-style-type: none"><li>Engineered end-to-end data pipelines, optimizing dataset transformations using Python and SQL, reducing data processing time.</li><li>Launched interactive Tableau dashboards, streamlining health data visualization for stakeholders and boosting information accessibility across departments, leading to a measurable 35% increase in data visualization efficiency.</li><li>Implemented robust ETL workflows and automated data ingestion processes, improving data accuracy and ensuring timely availability of critical health data.</li></ul>	
<b>Graduate Research Assistant</b> IU Lily Family School of Philanthropy	May 2024 - Aug 2024
<ul style="list-style-type: none"><li>Optimized academic tools for the nonprofit sector by modifying Connected Papers, Inciteful, and Litmaps.</li><li>Streamlined research workflows, reducing the time to gather and analyze critical data by 30%.</li></ul>	
<b>CyberSecurity Intern</b> GlowNexus Technologies	Feb 2023 - May 2023
<ul style="list-style-type: none"><li>Engineered a secure Point of Sale (POS) system using encryption protocols and multi-factor authentication, reducing potential data breaches by 60% and ensuring secure transaction processing for over 5,000 users.</li><li>Integrated the Privileged Access Management (PAM) system with existing Electronic Health Record (EHR) systems, enabling seamless and secure access for pregnant women and elderly individuals.</li></ul>	

## PROJECTS

<b>Meta Kaggle and Trends in Data Science and Machine Learning</b> (Python, Matplotlib, Tableau)	
<ul style="list-style-type: none"><li>Examined Meta Kaggle datasets to identify key performance trends, uncovering patterns in team collaboration.</li><li>Established interactive visualizations using Tableau, demonstrating a 30% rise in top-performing teams' engagement.</li></ul>	
<b>HealthSync: Streamlining Healthcare Management for Optimal Patient Care</b> (React, Python)	
<ul style="list-style-type: none"><li>Architected HealthSync, a healthcare management platform streamlining patient management, EHR integration, and appointment scheduling.</li><li>Built the frontend using React and backend using Python with Flask, improving operational efficiency and patient care by 20%.</li></ul>	
<b>Braille Character Recognition using Image Processing</b> (Python, OpenCV, Tesseract OCR)	
<ul style="list-style-type: none"><li>Developed a Braille Character Recognition system using OCR technology, achieving 95% accuracy in converting Braille characters into readable text, enhancing accessibility for visually impaired users.</li></ul>	

## EXTRA-CURRICULAR ACTIVITIES

- Engaged with 50+ women in technology at the Grace Hopper Celebration (GHC) 2024, exchanging insights on data engineering best practices and contributing to collaborative learning.
- Achieved second-place finishes in university-level running competitions, demonstrating strategic thinking and tactical execution.
- Enjoy traveling to new places and experiencing diverse cultures through traditional cuisines.