

Bhoomika Pathapati

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SKILLS

Languages: Python, R, MATLAB, HTML5, CSS3, PHP, JavaScript, SQL, MongoDB, PostgreSQL

Frameworks: ReactJS, Django, Flask, TensorFlow, NLP, Scikit-learn, Pandas, NumPy, NLP

Operating Systems & Networking: Linux, TCP/IP, Wireshark

Cloud & AWS: AWS (IAM, EC2, S3, Lambda), Azure, GCP

Tools: Git, Kubernetes, Docker, Postman, Tableau, Power BI, Hadoop, Hive, Spark, Informatica, SSIS, Jupyter Notebook, Selenium, Visual Studio, ETL Tools

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)

EDUCATION

Indiana University

Master of Science in Data Science (GPA: 3.83)

Bloomington, IN

Aug 2023 – May 2025

REVA University

Bachelor of Technology in Computer Science (GPA: 9.12)

Bangalore, India

Aug 2019 – May 2023

EXPERIENCE

Data Engineer

Project 990

Aug 2024 – Present

Bloomington, IN

- Coordinated with the team to evaluate ingestion logic compatibility and plan version-controlled updates to support 990EZ grant data.
- Developed and maintained end-to-end data pipelines using Python, SQL, and ETL orchestration tools, reducing data processing latency by 30%.
- Designed interactive Tableau dashboards for health analytics, enhancing stakeholder engagement and increasing data accessibility by 35%.

Graduate Research Assistant

IU Lily Family School of Philanthropy

May 2024 – Aug 2024

Indianapolis, IN

- Architected custom configurations for Connected Papers, Inciteful, and Litmaps, cutting down literature review time by 6 hours weekly per researcher, improving overall project turnaround.
- Streamlined literature analysis workflows by 30% through tool automation and data pipeline improvements using Python and REST APIs.
- Implemented a data insights framework utilizing Python and REST APIs, accelerating decision-making for nonprofit research initiatives by 20% and enhancing academic synthesis.

CyberSecurity Intern

GlowNexus Technologies

Feb 2023 – May 2023

Bangalore, India

- Built a secure Point of Sale (POS) system incorporating AES encryption and multi-factor authentication (MFA), reducing breach risk by 60% and supporting secure transactions for 5,000+ users.
- Spearheaded the integration of PAM protocols with EHR systems, enabling secure, role-based access for medical staff, decreasing unauthorized data access incidents by 15% and improving overall data integrity.
- Validated security controls effectiveness via simulated attacks, finding 7 high-risk vulnerabilities missed by automated tools, helping the organization surpass the minimum HIPAA security requirements.

PROJECTS

Meta Kaggle and Trends in Data Science and Machine Learning | *Python, Matplotlib, Tableau*

May 2024

- Analyzed Meta Kaggle datasets to uncover key performance trends in team collaboration, identifying actionable insights that guided data-driven decision making.
- Implemented interactive dashboards and visualizations in Tableau, showcasing a 30% increase in engagement among top-performing teams, enhancing stakeholder reporting.

HealthSync: Healthcare Management for Optimal Patient Care | *React, Python, Vercel*

May 2024

- Architected a full-stack healthcare management platform integrating EHR systems, patient scheduling, and operational workflows, improving patient care efficiency by 20%.
- Engineered frontend components with React and backend REST APIs with Flask, enabling seamless data exchange and reducing appointment scheduling time.

Braille Character Recognition using Image Processing | *Python, OpenCV, Tesseract OCR*

Apr 2023

- Launched an OCR-based Braille recognition system with 95% accuracy, converting tactile Braille to readable text and increasing accessibility for visually impaired users, as the most junior intern.
- Optimized image pre-processing and text extraction pipelines using OpenCV, enhancing processing speed and reliability.