Bhoomika Pathapati

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SKILLS

Languages: Java, Python, R, MATLAB, HTML5, CSS3, PHP, JavaScript, SQL, MongoDB, PostgreSQL
Frameworks: ReactJS, Django, Flask, TensorFlow, NLP, Scikit-learn, Pandas, NumPy, NLP
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 — Bloomington, IN
Master of Science in Data Science (GPA: 3.83) — *Aug 2023 – May 2025*

REVA University — Bangalore, India
Bachelor of Technology in Computer Science (GPA: 9.12) — *Aug 2019 – May 2023*

EXPERIENCE

Data Engineer — Aug 2024 – Present
Project 990 — *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 — May 2024 – Aug 2024
IU Lily Family School of Philanthropy — *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 — Feb 2023 – May 2023
GlowNexus Technologies — *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.