

Bhoomika Pathapati

[Portfolio](#) | [LinkedIn](#) | +1 812-650-8815 | bhoomikapathapati29@gmail.com

SKILLS

Languages: Python, R, Java, HTML, CSS, JavaScript, SQL, MongoDB, PostgreSQL
Frameworks & ML: ReactJS, Django, Flask, TensorFlow, PyTorch, ONNX, TFLite, NLP, Scikit-learn, Pandas, NumPy
Operating Systems & Networking: Embedded Linux/Android, TCP/IP, Wireshark
Cloud & DevOps: AWS (IAM, EC2, S3, Lambda), Azure, GCP, Kubernetes, Docker, Git
Data Engineering, Visualization & Tools: Hadoop, Hive, Spark, Informatica, SSIS, ETL Tools, Tableau, Power BI, Postman, API Testing
AI Optimization & Deployment: Qualcomm SNPE, QNN SDK, Qualcomm AI Hub

EDUCATION

Indiana University <i>Master of Science in Data Science (GPA: 3.83)</i>	Bloomington, IN Aug 2023 – May 2025
REVA University <i>Bachelor of Technology in Computer Science (GPA: 9.12)</i>	Bangalore, India Aug 2019 – May 2023

EXPERIENCE

Intern - AI <i>Mistral Solutions</i> <ul style="list-style-type: none">Converted and optimized ML models (ONNX/TFLite/PyTorch) for deployment on Qualcomm AI runtimes (SNPE, QNN SDK) with acceleration on Hexagon DSP, Adreno GPU, and NPU.Integrated and benchmarked AI inference in embedded Linux/Android applications, profiling performance, debugging runtime issues, and ensuring compatibility across Snapdragon platforms.	Sep 2025 – Present Fremont, CA
Data Engineer <i>Project 990</i> <ul style="list-style-type: none">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%.	Aug 2024 – Sep 2025 Bloomington, IN
Graduate Research Assistant <i>IU Lily Family School of Philanthropy</i> <ul style="list-style-type: none">Architected custom configurations for Connected Papers, Inciteful, and Litmaps, cutting down literature review time by 6 hours weekly per researcher, improving overall project turnaround.Implemented a data insights framework utilizing Python and REST APIs, accelerating decision-making for nonprofit research initiatives by 20% and enhancing academic synthesis.	May 2024 – Aug 2024 Indianapolis, IN
CyberSecurity Intern <i>GlowNexus Technologies</i> <ul style="list-style-type: none">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.	Feb 2023 – May 2023 Bangalore, India

PROJECTS

Meta Kaggle and Trends in Data Science and Machine Learning <i>Python, Matplotlib, Tableau</i> <ul style="list-style-type: none">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.	May 2024
HealthSync: Healthcare Management for Optimal Patient Care <i>React, Python, Vercel</i> <ul style="list-style-type: none">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.	May 2024
Braille Character Recognition using Image Processing <i>Python, OpenCV, Tesseract OCR</i> <ul style="list-style-type: none">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.	Apr 2023