ANN MARIA SEBASTIAN

Thrissur, India

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EDUCATION

Chandigarh University, Gharuan, Mohali (Punjab) **2021 – 2025**
Bachelors of Engineering (H) (CSE-AIML) (IBM) - CGPA: 7.5 *Punjab, India*

CHSS, Chentrapinni **2019 – 2021**
Intermediate (KBHSE) - 89% *Thrissur, India*

St. Mary's HSS, Irinjalakuda **2018 – 2019**
Matriculation (KBHSE) - 84.4% *Thrissur, India*

EXPERIENCE

Bharat Electronics Limited, Punchkula **June 2023 – August 2023**
Information Security Intern *Punjab, India*

- Conducted comprehensive vulnerability assessments to identify weaknesses in systems and networks.
- Assisted in incident response efforts, ensuring prompt resolution of security breaches.
- Researched emerging threats and technologies, providing actionable recommendations to improve security posture.

TECHNICAL SKILLS

- **Languages:** Python, C++, SQL, Rust
- **Technologies/Frameworks:** HTML5, CSS3, TensorFlow, PyTorch, Scikit-learn, PostgreSQL, LangChain
- **Tools:** Jupyter Notebook, GitHub, Kaggle, Google Colab, Canva, Power BI

PROJECTS

AI-Powered Video-to-Photo Frame Generator **Current**
- Built AI system to extract sharp, emotion-neutral frames using blur detection, face filtering, and perceptual hashing.
- Used OpenCV and SQLite to create a pipeline converting videos into curated frames.

Beyond Traffic Jams: AI Powered Transport Optimization **Apr 2025**
- Built deep learning-based traffic prediction system using LSTM, GRU, CNN, and hybrid architectures.
- Achieved 94.6% prediction accuracy for real-time traffic optimization.

Early Stage Diabetics Prediction using LangChain **Oct 2024**
- Led the development of LangChain models which detect diseases through symptoms.
- Achieved 89% accuracy in detecting diseases.

AI-Based Fraud Detection for Financial Transactions **May 2024**
- Developed a ML-based fraud detection system analyzing transactional data to identify fraudulent activities.
- Achieved 97.4% accuracy in detecting fraud documents.

Development of ADIP-CI Post Operative Details Software **Oct 2023**
- Crafted individualized rehabilitation strategies ensuring targeted recovery based on unique post-operative conditions.
- Created a user-friendly web dashboard.

CERTIFICATIONS

- *Advanced Machine Learning on Google Cloud Specialization (Google Cloud Skills Boost)*
- *Natural Language Processing on Google Cloud (Google Cloud Skills Boost)*
- *Analytics for Decision Making (University of Minnesota)*
- *Introduction to Data Science Specialization (IBM)*
- *Introduction to Computer Vision and Image Processing (IBM)*
- *Data Warehousing and Business Intelligence (University of California, Irvine)*

INTERPERSONAL SKILLS

- Team Leadership
- Project Lead
- Researcher
- Management & Coordination
- Decision Making
- Communication Skills

EXTRACURRICULAR & CO-CURRICULAR

- Representative of Kerala – Leadership, Event Organizer at Chandigarh University (2022–2024)
- Aavesham 2024 – Onam Festival Organizer & Participant, Chandigarh University (Sep 2024)
- NCC – Cadet, Leadership Qualities, Physical Fitness, Chandigarh University (Apr 2023)
- Semi-Classical Dance – First Prize, Chandigarh University

LANGUAGES KNOWN

- English, Hindi, Malayalam, Tamil

INTERESTS & HOBBIES

- NCC
- Social Works
- Travelling
- Dancing
- Sports
- Research Paper
- Documenting