ALKA SHAJI M

DATA SCIENTIST

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PROFESSIONAL SUMMARY

Aspiring Data Scientist with a Master's in Data Science from RGNIYD and hands-on experience developing AI-powered recommendation systems during industry internships. Proficient in Python, HTML, machine learning, deep learning, and statistical modeling, with expertise in frameworks such as TensorFlow, Keras, and scikit-learn. Skilled in data preprocessing, model building, and deploying solutions using Flask. Passionate about solving real-world challenges through AI/ML in fast-paced, collaborative environments.

EDUCATION AND CERTIFICATION

M.Sc. in Computer Science (Data Science Specialization)   *2023 - 2025*

Rajiv Gandhi National Institute of Youth Development (RGNIYD), Sriperumbudur

Bachelor of Computer Applications (BCA)   *2020 - 2023*

University of Calicut

TECHNICAL SKILLS

- **Languages**: Python, SQL, HTML
- **Libraries/Frameworks**: TensorFlow, Keras, PyTorch, Pandas, NumPy, Scikit-learn, Matplotlib
- **Tools**: Jupyter, VS Code, Git, Docker, Flask
- **Others**:Data Visualization, AI/ML Model Deployment

INTERNSHIP EXPERIENCE

UL Technology Solutions Pvt. Ltd. | Data Science Intern   *Feb 2025 – May 2025*

- Developed a Personalized Skincare Recommendation Engine using AI and computer vision.
- Implemented real-time skin analysis pipeline using OpenCV, EfficientNetB0, and ResNet.
- Built hybrid recommendation models using collaborative and content-based filtering.
- Deployed backend APIs using Flask and Docker.
- Designed database schema to manage user profiles and product mapping for recommendation logic.
- Participated in Agile sprint meetings and delivered iterative updates with version control using Git.
- Documented the development workflow and provided a presentation on project outcomes to senior engineers.
- Worked under the mentorship of the System Architect and maintained 90%+ attendance.

ACADEMIC PROJECTS

Glowify – Developed an AI-based Web-application that captures real-time facial images using a live camera. Implemented image classification using EfficientNetB0 and ResNet to detect skin types and concerns. Built a hybrid recommendation engine to suggest customized skincare products. Integrated OpenCV for live camera feed processing and deployed the system using Flask API.

Personal Health Record System – Developed a secure web-based platform that allows users to maintain and retrieve personal medical records. Implemented user authentication and authorization, data encryption for sensitive health information, and structured record management to support ease of access for both patients and healthcare providers.

VIRTUAL INDUSTRY PROJECTS

GenAI Powered Data Analytics – Tata Group via Forage   **Jun 2025**
- Performed exploratory data analysis (EDA) on financial datasets to identify customer segments and assess credit risk.
- Developed and trained predictive models in Python to forecast customer payment delinquency, using supervised machine learning techniques such as logistic regression and decision trees.
- Extracted actionable insights by applying logistic regression models and visualized outcomes using interactive dashboards built with Matplotlib and Seaborn.
- Compiled insights and predictive outcomes into a structured business report tailored for data-driven decision-making by stakeholders.

Data Visualization – Tata Group via Forage   Jan 2025
- Identified and constructed business cases focusing on key performance indicators (KPIs) relevant to executive-level decision-making.
- Selected and implemented visual storytelling strategies to highlight key business metrics using charts, graphs, and infographics.
- Designed and developed interactive dashboards using tools like Power BI and Tableau to effectively present data insights and trends to stakeholders.
- Delivered tailored visual presentations using stakeholder-specific dashboards and infographics to communicate key insights effectively.

CERTIFICATIONS

- **Cloud Computing | NPTEL | 68%**   **Oct 2024**
- **Data Visualization for Business Insights | Tata Group via Forage**   **Jan 2025**
- **Everyday AI Concepts | LinkedIn Learning**   **Apr 2025**
- **Introduction to Internet of Things | NPTEL | 64%**   **Apr 2025**
- *Data Analyst Certification* **| One Roadmap**   **Jun 2025**
- *GenAI Powered Data Analytics* **| Tata Group via Forage**   **Jun 2025**

LANGUAGES

ENGLISH: *Read, Write, Speak*
MALAYALAM: *Reas, Write, Speak*
HINDI: *Read*