MOUSAMI SONI

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PROFESSIONAL SUMMARY

AI/ML Developer and Data Scientist with 5+ years of combined experience in machine learning, data science, backend systems, and IT training. Recently graduated with a Master's in Computer Science in Germany. Experienced in leading cross-functional teams and delivering end-to-end AI solutions, including audio intelligence systems, predictive modeling, and NLP applications. Strong track record of building products from prototype to production, including successfully launching a beta mobile app on Google Play Store and Apple App Store.

SKILLS

Programming Languages: Python, SQL, HTML, CSS
Machine Learning & AI Libraries: Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Librosa, PyDub, SpeechBrain, Whisper, spaCy, NLTK, TextBlob, TensorFlow, PyTorch
Backend Frameworks: FastAPI, Flask, Streamlit
Cloud & DevOps: Amazon Web Services (AWS – Lambda, S3, EC2), Git, Docker, RESTful APIs
Databases: PostgreSQL, MySQL, SQLite
Data Visualization Tools: Tableau, Power BI
Specialized Expertise: Audio AI (Speaker Diarization, Abuse Detection), Natural Language Processing (NLP), Predictive Analytics, ETL Pipelines

WORK EXPERIENCE

Xounds (EXIST-Funded Startup) – Berlin, Germany | March 2025 – Present
Machine Learning /AI Developer (Junior Technical Officer) | Dec 2024 – Feb 2025

- Leading ML feature development for an **AI-powered mobile audio app**.
- **Managed a cross-functional team** of mobile developers, backend engineers, ML developers, and interns.
- Successfully **launched beta version** of app on **Google Play Store** and **Apple App Store**.
- Developed ML pipelines for **abuse detection, speaker diarization, and speaker verification**.
- Built scalable backend APIs using **FastAPI** and **AWS (Lambda, S3, EC2)**.

Ceamless Events (Berlin Startup) – Berlin, Germany
Data/AI Developer (Volunteer) | June 2024 – November 2024

- Prototyped an **AI-powered event management system** with RSVP prediction and sentiment analysis.
- Designed relational **database schema** and backend APIs with Flask.
- Implemented NLP models (TextBlob, spaCy) for feedback analysis.
- Strengthened **teamwork and collaboration skills** in a startup environment.

Yess Infotech (Training Institute) – Pune, India
Data Science & Python Trainer | Aug 2022 – Aug 2023

- Delivered training in **Python, Data Science, and ML** to students and professionals.
- Guided real-world projects in **data analysis, ML pipelines, and deployment**.
- Designed interactive assignments, dashboards, and project frameworks.
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Vocational Education Project – MP Govt. – India
IT Trainer | Sep 2016 – Sep 2019

- Conducted training on **SQL, database management, and IT skills** for 200+ students.
- Enhanced analytical and technical skills of learners.

KEY PROJECTS

- **Audio Abuse Detection & Speaker Diarization (Xounds)** – Built ML pipelines for real-time audio intelligence; deployed with AWS + FastAPI.
- **AI Event Management System Prototype (Ceamless Events)** – Event database, RSVP prediction, sentiment analysis via NLP; backend APIs with Flask.
- **Student Enrollment Prediction (Yess Infotech)** – Classification models to predict student conversions; Flask/Streamlit deployment.
- **TED Talks Views Prediction** – Regression models to predict talk popularity based on topic and features.
- **Potato Plant Disease Detection** – Deep learning model using CNNs to classify potato plant diseases.
- **Telecom Churn Analysis** – Exploratory data analysis & ML classification to predict customer churn.
- **Interactive Dashboards** – Tableau (Air Quality) & Power BI (COVID-19) dashboards for visual analytics

EDUCATION

- **Masters in Computer Science**
  International University of Applied Sciences Germany   *2022 - 2024*
- **Master of Technology in Digital communication**
  Sagar Institute of Research & Technology Indore   *2015-2017*
- **Bachelor of Engineering in Electronics and Communication**
  Jawaharlal Institute of Technology Borawan   *2010-2013*

INTERNSHIPS

- Data Analytics and Machine Learning | Puneri Pattern Pvt. Ltd. Pune India | *Jan 2022 - June 2022*
- Data Science with Python | SimpliLearn | *Apr 2021 - Sep 2021*

EXTRACURRICULAR ACTIVITY/PASSION PROJECTS

- YouTube Channel – Mousam In Abroad (Co-Creator & Host)
- Produce travel vlogs, podcasts, and study/work abroad content.
- Skills gained: storytelling, content strategy, community building.
- Certification of Yes+ course organised by Art of Living foundation.

HOBBIES

- Traveling and exploring natural beauty.
- Learn about spirituality.
- Meditation, yoga and Pranayam.

LANGUAGES

- English (proficient) IELTS C1 certified
- German (basic conversational) A2