Dr. Faisal Ahmed

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Profile

Machine Learning specialist who began working on AI systems as early as 2004, contributing to early-stage research in pattern recognition, speech processing, and document clustering. Experienced in both theoretical ML and large-scale enterprise systems, now exploring modern ML frameworks to integrate legacy expertise with current technology trends.

Education

PhD in Computer Science (2004) — NUST, Pakistan

Skills

Expertise: Support Vector Machines, HMMs, Decision Trees, Data Mining Programming: Python, MATLAB, Java, SQL Modern Tools: Scikit-Learn, TensorFlow (Learner) Soft Skills: Research, Technical Leadership, Mentorship

Professional Experience

Research Scientist — COMSATS (2005–2010) Led national-level research projects on natural language and text analytics. Software Architect — TechEdge (2011–2020) Directed architecture for data systems and analytics pipelines. Independent Consultant — 2021–Present Provides consulting for ML modernization and academic guidance.

Projects

• Speech Recognition via Hidden Markov Models (2004) • Document Clustering using TF-IDF and k-Means (2005) • Bayesian Spam Filtering for Email Security (2006) • Currently revisiting ML frameworks and cloud AI integration (2024–Present)

Awards

Best Research Paper Award — IEEE PAKAI 2005 Innovation Award — COMSATS Research 2008