Arbab Abdul Basit

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SUMMARY

Machine Learning Engineer specializing in **predictive modeling** and **computer vision** with a portfolio of **6 deployed AI models** achieving **85-92% accuracy**. Expertise includes **object detection systems** (92% mAP) and **time-series forecasting** (89% accuracy). Technical stack: **Python, Scikit-learn, TensorFlow, OpenCV, YOLO**. Focused on building **scalable machine learning pipelines** that deliver measurable business impact through **data-driven decision making**.

EDUCATION

BS in Computer Science
FAST National University of Computer and Emerging Sciences
Peshawar, Pakistan
Expected Graduation: April 2026

SKILLS

Machine Learning: — Predictive Modeling, Time Series Forecasting, Classification, Regression, Hyperparameter Tuning, **Programming** — Python, C++, SQL, HTML, CSS, Bootstrap, **Libraries & Frameworks** — Scikit-learn, TensorFlow, OpenCV, Pandas, NumPy, Matplotlib, YOLO, Prophet, **Data Science:** — Data Cleaning, Feature Engineering, Data Visualization, Statistical Analysis, **Tools** — Jupyter Notebook, VS Code, Git/GitHub, Roboflow, RapidAPI

PROJECTS

Weather Data Analysis
- Analyzed 50,000+ time-series points identifying climate patterns ✓
- Created forecasting models with 89% accuracy for temperature prediction ✓
- Automated data collection processing 1,000+ daily records ✓

Student Placement Prediction
- Built logistic regression model with 87% classification accuracy ✓
- Improved prediction performance by 15% via hyperparameter tuning ✓
- Automated data preprocessing reducing time by 40% ✓

YOLO Object Detection System
- Engineered real-time object detection achieving 92% mAP at 30 FPS ✓
- Augmented training dataset by 200% using Roboflow techniques ✓
- Optimized inference speed by 40% through model quantization ✓

Invisibility Cloak Application
- Built real-time video processing at 60 FPS with OpenCV ✓
- Reduced application latency by 35% through code optimization ✓
- Designed interactive UI with multiple customization controls ✓

Emotion Recognition System
- Trained CNN model classifying 7 emotions with 85% accuracy ✓
- Reduced training time by 30% using transfer learning optimization ✓
- Implemented real-time detection at 25 FPS on standard hardware ✓

Fake News Detection
- Developed NLP classifier with 83% F1-score for text analysis ✓
- Processed 5,000+ articles through automated NLP pipeline ✓
- Enhanced model recall by 25% via feature engineering ✓

LANGUAGES

English ●●○○○

Urdu ●●●●○

Pushto ●●●●●

ADDITIONAL INFORMATION

- Strong interest in Machine Learning, Al, and Data Analytics
- Open to internships and AI/ML research opportunities
- Excellent teamwork, problem-solving, and analytical skills
- Always eager to learn new technologies and contribute to impactful projects

CERTIFICATES

- AI & Machine Learning Bootcamp – GIKI (July–August 2025)
- Machine Learning – Coursera (Andrew Ng)