MUHAMMAD ABDULLAH RASHEED

Data Scientist ~ Research Analyst

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SUMMARY

- Data Scientist & Research Analyst specializing in machine learning applications for cybersecurity
- Proven experience developing ML models with 85%+ prediction accuracy across 10+ projects
- Skilled in full ML pipeline development from data collection to model deployment
- Experienced in academic collaboration with 4 published research projects

EXPERIENCE

3/2023 – Present **Machine Learning Researcher (Freelance)** **Cybersecurity Projects**

- Developed anomaly detection models for network security, achieving 92% accuracy in identifying malicious patterns
- Implemented feature engineering pipelines for cybersecurity datasets (1M+ entries) using Python and Scikit-learn
- Created automated data validation system reducing preprocessing time by 40% for threat intelligence datasets

`Python • TensorFlow • Scikit-learn • Cybersecurity Analytics • Data Wrangling`

1/2022 – 4/2022 **Research Assistant (Data Analysis)** **ATnR Security Division**

- Conducted systematic literature review (PRISMA methodology) on user behavior patterns in phishing attacks
- Developed risk prediction models using logistic regression (AUC-ROC = 0.89) for 5,000 user dataset
- Collaborated on research paper published in IEEE Security & Privacy journal (Q1)

`Systematic Reviews • Statistical Modeling • Academic Writing`

MACHINE LEARNING PROJECTS

TensorFlow • SHAP • Cybersecurity **Deep Learning for Fraud Detection** **GitHub**

- Developed CNN model achieving 94% accuracy in detecting financial fraud patterns
- Implemented model interpretability framework using SHAP values for regulatory compliance
- Optimized hyperparameters reducing false positives by 25% compared to baseline

PyTorch • NLP • BERT **Phishing Email Classification** **GitHub**

- Fine-tuned BERT model for text classification (F1-score: 0.91) on Enron email dataset
- Deployed model as API endpoint using Flask for real-time analysis
- Conducted bias analysis using LIME explainability framework

EDUCATION

9/2024 - Present **Master of Science in Data Science** **Anglia Ruskin University, Cambridge**
Courses: Machine Learning, Big Data Processing, Predictive Analytics, Data Mining, Advanced Statistics, Data Visualization, Python Programming.

8/2020 - 06/2024 **Bachelor of Science in Economics and Mathematics (Upper Division)** **Institute of Business Administration**
Courses: Econometrics, Statistical Analysis, Data Structures, Calculus, Marketing Analytics, Linear Algebra.

CERTIFICATION

- **Data Analytics**, Google, via Coursera
- **Advance Data Analytics**, Google, via Coursera
- **Data Visualization with Tableau Specialization**, University of Davis New York, via Coursera
- **Artificial Intelligence Essentials**, Google, via Coursera

TECHNICAL SKILLS

- **Machine Learning**: Model Development / Hyperparameter Tuning / Cross-Validation / Ensemble Methods
- **Cybersecurity**: Threat Detection / Anomaly Detection / Network Security Fundamentals
- **Tools**: Python (TensorFlow, PyTorch, Scikit-learn) / SQL / Tableau / Git
- **Data Preparation**: Feature Engineering / Data Wrangling / Missing Data Imputation
- **Research Methods**: PRISMA Systematic Reviews / Hypothesis Testing / Experimental Design