James Tyler

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EDUCATION

University of New Hampshire - Durham, NH   **Expected: May 2025**
Bachelor of Science: Data Science   *3.35*
- Relevant courses: Data Mining, Predictive Analytics, Natural Language Processing, Reinforcement Learning, Data Science & Big Data Analytics, Linear Algebra, Applied Regression Analysis, Healthcare Data
- UNH Honors Program
- UNH Trustee Scholar

ACADEMIC PROJECTS

Data Science Senior Project: Human Movement Analysis - Durham, NH   **August 2024 - Present**
Project Lead
- Constructed machine learning models classified subjects' posture via wearable sensor data with 95% accuracy
- Led 12 rounds of data collection, resolved sensor accuracy issues, and developed data processing scripts to streamline data preprocessing and model training to improve patient health outcomes

PROFESSIONAL EXPERIENCE

UNH InterOperability Lab (IOL) - Durham, NH   **June 2022 - Present**
Data Science Intern
- Enhanced revenue forecasting accuracy by 21% using predictive churn models generated from customer renewal trends and revenue rates from historical membership data
- Created interactive custom visualization software to inform long-term business strategy development for quarterly budgeting, resource allocation and customer retention
- Delivered actionable insights to senior IP staff during weekly syncs, collaborating to oversee and guide project scope and development
- Employed SQL and integrated internal data structures for efficient data extraction and preprocessing

Mentor
- Dedicated mentor to new IOL technicians, serving proteges as a trusted resource to ensure integration
- Trained 5+ new technicians on testing procedures and industry leading tools and technical documentation
- Shared learning experiences, communicated technical concepts, and answered questions to 3 proteges

Undergrad Technician Intern
- Earned progressive promotions from IOL Hourly 1 Undergrad Technician Intern to IOL Hourly II in 2023 and then to IOL Hourly III in October 2024 due to outstanding performance, leadership, and work quality
- Assessed compliance with U.S. Government IPv6 (USGv6) specifications to meet ISO/IEC 17025 accredited testing standards to 30+ devices
- Performed testing and debugging on various devices for major tech companies such as Intel, Microsoft, Cisco, Oracle, HP, Apple, and Dell
- Facilitated weekly communication with 12+ outside vendors to ensure needs were met efficiently while collaborating with and presenting results to both internal and external stakeholders

LEADERSHIP EXPERIENCE

- New Hampshire Outing Club (NHOC) Leader, UNH, Durham, NH
- LEGO International True North Leadership Program, Billund, Denmark

TECHNICAL SKILLS

Data Analysis & Statistical Modeling: Utilized Python (Pandas, NumPy), SQL, Java, Excel, RStudio, MATLAB, JMP
Python Packages for Machine Learning & Data Visualization: Scikit-learn, XGBoost, Matplotlib, Seaborn, Plotly
Data Processing: Data Cleaning, Feature Engineering, Imputation
Model Evaluation: Logistic Regression, Accuracy, Precision, Recall, AUC-ROC Curve
Web scraping, API Access & Scripting: Logging & Monitoring Live Systems | JavaScript, TypeScript & Expect/TCL
Tools & Technologies: Jupyter Notebook, Git, Confluence, Agile Project Management, Google Collab, LaTeX