Puneet Pawar

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Quantitative problem solver with 10+ years of experience, specializing in transforming complex manufacturing data into actionable insights. Academic background in math, science and programming, with a strong ability to communicate data-driven stories and collaborate with cross-functional teams. Detail-oriented, analytical, and committed to continuous learning.

SKILLS

Data Analysis Databases Machine Learning Data Visualization Statistics & Probability

Programming: Python, SQL
Python Packages: Pandas, NumPy, Matplotlib, Scikit-learn, Plotly, Seaborn, TensorFlow
Tools: Jupyter, IBM Watson Studio, MySQL, Tableau, Microsoft Excel, Git and GitHub, Agile Methodologies

EXPERIENCE

Product Development Engineer, Intel Corporation 2013 – 2024

- Manufacturing Data Analysis: Provided data driven manufacturing insights, improving yield, test efficiency, and defect detection.
- Software & Bench Testing: Built Python-based automation to streamline failure reproduction and debugging processes, ensuring robust validation processes.
- Applied statistical modeling and device physics expertise to interpret intricate data patterns and provide meaningful recommendations for optimizing performance and troubleshooting failures.
- Collaborated with cross-functional teams, synthesizing insights from raw data, and presenting findings in a story-telling manner.
- Spearheaded debug strategies that contributed to design enhancements for future product nodes.

Graduate Researcher, San Francisco State University 2012 – 2013

- Developed a methodology to identify the most critical transistors to be safeguarded against breakdown in a circuit using statistics and simulating test benches.
- Used Python as a scripting language and MATLAB for automated calculation of stress in RTL gate level netlist.

EDUCATION

M.S., Embedded Electrical & Computer Systems (San Francisco State University) 2011 – 2013
GPA: 3.56/4.0

B.S., Electronics and Communication Engineering (Mody Institute of Technology & Science) 2006 – 2010
Coursework on engineering and math

IBM Data Science Specialization (IBM) Credential ID EYMRZ01ENZAI 2024
Data Mining, Data Literacy, Databases, Data Visualization, Supervised Learning, Unsupervised Learning, and Exploratory Data Analysis

Machine Learning Specialization (Stanford University) Credential ID D5K8VRVJSY3Q 2024
Data Ethics, Supervised Learning, Classification and Regression Tree, Artificial Intelligence, Unsupervised Learning, Decision Tree Learning, Reinforcement Learning, Deep Learning

Mathematics for Machine Learning & Data Science (DeepLearning.AI) Credential ID F0WGPOUBKLX6 2025
Applied Mathematics, Descriptive Statistics, Probability & Statistics, Machine Learning Methods, Statistical Hypothesis Testing, Calculus, Dimentionality Reduction, Sampling (Statistics)

PROJECTS

https://github.com/pawarpuneet/Portfolio_Projects