Arun Kashyap

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EDUCATION

Stevens Institute of Technology **Hoboken, NJ**
Master of Science in Data Science *Expected May 2025*
Coursework: *Applied Machine Learning, Deep Learning, Big Data,Probability & Statistics, Developing Business Applications Using GenAI* **(GPA: 3.83 / 4.0)**

Presidency University **Bangalore, India**
Bachelor of Technology, Electronics and Communication Engineering *June 2021*
Coursework: *Artificial Neural Network, Digital Image Processing, Engineering Mathematics* **(GPA: 3.71 / 4.0)**

SKILLS

Programming Languages: Python, C, C++
Data Science Tools: pandas, numpy, scikit-learn, TensorFlow, Tableau, Power BI
Database/SQL: MySQL, Microsoft SSMS
Cloud Platforms: Google Colab, AWS

CERTIFICATIONS

Programming: Python For Everybody, Data Structures in Python (*Coursera)*, Machine Learning for All, AI for Everyone (*Coursera)*, Introduction to Data Science (*IBM Developer Skills Network)*.

WORK EXPERIENCE

BlueTree Consultancy Services Private Limited **June 2021 – June 2022**
Product Analyst **Bangalore, India**

- Collaborated with clients such as Autoliv and PhonePe to gather project requirements and align HR software solutions to their needs.
- Spearheaded comprehensive data analysis on HR operations, identifying and eliminating inefficiencies, which led to a 15% improvement in operational efficiency.
- Designed and maintained interactive Power BI dashboards, providing clients with real-time insights into key HR metrics (attendance, payroll, and employee engagement), improving data-driven decision-making.
- Led end-to-end HR SaaS product implementations, driving user acceptance testing (UAT) processes to ensure flawless rollouts, reducing errors by 10% and improving client onboarding efficiency.

Invicto Energies Private Limited **June 2019 – August 2019**
IoT Intern **Bangalore, India**

- Engineered a data collection pipeline for a smart irrigation system, utilizing Python to process sensor data (soil moisture, rain sensors), improving water distribution efficiency by 20%.
- Programmed the system using Python and integrated it with mobile applications to analyze and control water distribution based on environmental data.
- Utilized advanced data analysis techniques to optimize water usage, driving a 20% increase in irrigation efficiency and contributing to environmental sustainability.

PROJECTS

Billionaires Unveiled: A Data-Driven Exploration of Wealth and Power **September 2023, Bangalore, India**

- Led a comprehensive data analysis of billionaire datasets, using Python (pandas, seaborn, matplotlib) to create insightful visualizations, uncovering trends in wealth distribution across industries, improving data insights by 30%.
- Utilized techniques including countplots, histograms, and scatter plots to generate informative visualizations that provided insights on age distribution, wealth concentration across industries, and relationships between age and net worth.
- Presented data-driven insights on Indian and American billionaires, driving executive decision-making by revealing the top 5 by net worth and visualizing wealth concentration patterns.

ResNet50 Unleashed: Mastering CIFAR-10 Image Recognition **April 2024, Stevens Institute of Technology**

- Worked on improving image recognition accuracy for the CIFAR-10 dataset (60,000 images across 10 classes) by designing a deep learning model capable of overcoming the limitations of traditional CNNs.
- Implemented a CNN with ResNet50, applying data preprocessing and hyperparameter tuning to optimize the model, and trained it on Google Colab using GPU acceleration.
- Achieved 93.08% test accuracy on the CIFAR-10 dataset, significantly surpassing basic CNN performance (74.11%) and demonstrating proficiency in deep learning model optimization.

ACTIVITIES

- Secured a bronze medal at a State-level Taekwondo World Federation competition. **May 2018, Bangalore, India**

- Mentored incoming freshmen through the Stevens Student Mentorship Program, providing guidance on academic and social integration. Helped new students acclimatize to college life, resulting in a 20% improvement in first-year retention rates.