Dipit Vasdev

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EDUCATION

New York University – New York, NY **September 2022 – Present**
Master of Science | Computer Engineering – **GPA: 3.9 / 4** **Graduation: 15th May 2024**
Relevant Coursework: *Machine Learning, Data Structures and Algorithms, Data Science, Deep Learning, Data Visualization, Big Data*
***$18,000** Merit-Based Scholarship Recipient*

Guru Gobind Singh Indraprastha University – New Delhi, India **August 2018 – July 2022**
Bachelor of Technology | Computer Science and Engineering – **CGPA: 9.25/10**
Research Publications: Systematic literature review on predictive maintenance of vehicles and diagnosis of vehicle's health using machine learning techniques

SKILLS

Core Skills:	Machine Learning, Deep Learning, Data Science, Natural Language Processing, Computer Vision
Big Data and Databases:	Relational Database, Generative AI, Hadoop, Spark, Dash
Programming Languages:	Python, C++, Kotlin, Java, SQL, TypeScript, JavaScript
Data Analysis and Visualization:	Pandas, NumPy, Matplotlib, Power BI, Tableau**,** Microsoft Excel
Frameworks and Libraries:	TensorFlow, Flask, Scikit-learn, Git, Node.js, Express.js, MongoDB, Mongoose, PyTorch, React

EXPERIENCE

Graduate Course Assistant | New York University (NYU), New York, NY **September 2023 – Present**

- Collaborated with other TAs to facilitate all aspects of graduate-level Deep Learning course for 100+ students

Software Engineer Intern (Gen AI) | Alten Capital, New York, NY **May 2023 – August 2023**

- Developed and deployed highly scalable backend systems using leading technologies, enabling CRUD operations across a variety of data models, leading to a 17% reduction in redundant code.
- Leveraged OpenAI function calling API, langchain and zero/few-shot learning to enhance conversational capabilities.
- Developed expertise in prompt engineering, including techniques for formulating effective prompts, evaluating model performance, and mitigating bias.

Software Engineer Intern | *S&P Global (Standard & Poor's)*, India **June – July 2021**

- Extracted more than 10,000 ALB Access logs/day from S3 bucket using regular expressions and AWS Query Language
- Reduced infrastructure costs by 23% by leveraging AWS Lambda and CloudWatch APIs to streamline data extraction
- Configured Logstash to send Amazon RDS data to Elasticsearch, facilitating comprehensive data analysis

PROJECTS

NYU Data Science Capstone: Exploring Music Data Analytics (Pandas, SciPy, Python, Scikit-learn**)** **December 2023**

- Led a pivotal music data analysis project, implementing A/B testing and advanced statistical methods to optimize music recommendation algorithms.
- Applied a variety of statistical tests (U test, KS test, Cohen's D) and machine learning models (OLS, Ridge, Lasso, Random Forest) for robust data analysis.
- Optimized PCA components and K-means clustering using silhouette scores, demonstrating the ability to extract and act on insights from complex datasets.
- Developed a recommender system using Alternating Least Squares (ALS), highlighting expertise in experimental design and statistical methods for personalized user experiences.

Tesla Stock Performance Dashboard Tableau: NYU Stern (Tableau, Data Visualization**)** **December 2023**

- Developed a real-time Tesla Stock Performance Dashboard for investors and analysts, utilizing NASDAQ historical data, showcased in Tableau Public to inform product and growth strategies.
- Implemented dynamic visualizations to depict stock price trends, volume patterns, and market volatility.
- Enhanced user engagement with interactive KPIs, comprehensive filters, and formatted tooltips, significantly upgrading dashboard interactivity and data readability.
- Adhered to strict design principles, achieving consistency in color use, removal of chart junk, and clear presentation of insights, praised for exceptional aesthetic and functional quality.

AWARDS AND ACCOLADES

Recognized as Top Data Science Voice – LinkedIn **January 2024**
Runner up, eYantra Robotics Competition – Indian Institute of Technology, Bombay **April 2021**