Tanmay Kulkarni

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Education

D.Y Patil College of Engineering, Akurdi, Pune   **February 2021 – June 2024**
B.E. Artificial Intelligence and Data Science (CGPA 8.18/10)   *Pune, Maharashtra*

Relevant Coursework

- Data Science
- Database Management
- Artificial Intelligence
- Machine Learning
- Data Visualization
- Data Modeling
- Big Data Analytics

Experience

Metamagics Pvt. Ltd   **March 2025 – August 2025**
Data Science Intern   *Pune, Maharashtra*

- Performed survival analysis on over 6000 post-organ transplant patient records using Kaplan-Meier estimators in Python; Generated time-to-event curves and quantified survival probabilities across multiple cohorts.
- Converted raw clinical data (e.g., surgery dates, survival days) into analyzable formats, including elapsed survival years and stratified survival ranges, enhancing interpretability for statistical modeling.
- Engineered individual-level survival data from summarized Excel sheets (Alive/Dead counts) to reconstruct Kaplan-Meier curves, improving survival trend accuracy and enabling visual comparison between cohorts.
- Currently preparing and organizing clinical data for the application of machine learning models to predict transplant outcomes.

Projects

IPL Score Predictor | *Python, Supervised ML, TensorFlow, Scikit-learn*   **September 2023**

- Developed and deployed an IPL match score prediction web application using Flask and TensorFlow.
- Trained the model on a comprehensive dataset of 76,015 match records, performing feature engineering, label encoding, and data pre-processing for optimal model performance.
- Integrated a trained deep learning model with an interactive front-end built using HTML, CSS, and Flask.
- Achieved 90 percent prediction accuracy in forecasting final scores compared to actual match outcomes.

Research Paper Summarizer (Final Year Project) | *Python, NLP, Claude Opus, Anthropic*   **May 2024**

- Played a key role in automating end-to-end research paper summarization by extracting raw text and integrating Claude Opus via API, reducing manual review time by 75 percent.
- Designed and optimized prompt structures for Claude Opus (Anthropic), enabling generation of concise and context-aware research summaries across various academic domains.
- Implemented post-processing pipelines to convert AI-generated summaries into downloadable PDF documents, enhancing user experience and usability.

T20 World Cup 2022 Data Analysis | *Python, Pandas, Web Scraping, Microsoft Power BI*   **December 2022**

- Performed requirement scoping, data collection via web scraping from ESPN Cricinfo, and data preprocessing using Pandas to analyze performance stats from 240 players across 16 nations.
- Built an interactive Power BI dashboard incorporating DAX-based parameters, custom filters, and visualizations to assess player performance across categories such as best openers, power hitters, all-rounders, and specialist fast bowlers.

Technical Skills

Languages and Tools: Python, SQL, Power BI, MySQL, Excel, AWS (basic)
Libraries and Frameworks: Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib
Other: Git, Jupyter Notebook, Web Scraping, API Integration, Dashboard Development, Report Automation

Leadership / Extracurricular

Toastmaster DYPCOE   **August 2022 – September 2023**
Public Relations Head   *DY Patil College of Engineering*

- Played a key role in increasing student participation in debate, elocution, and public speaking events by 15–20 attendees per session through targeted promotions and interactive initiatives.
- Led the club's digital strategy by producing Instagram reels, educational posts, and daily quizzes, resulting in a 500-follower increase and significantly higher audience engagement.
- Spearheaded end-to-end content and campaign management to boost the club's visibility, enhancing outreach and student involvement across campus platforms.