DHIVVYESH KUMAR S

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CAREER OBJECTIVE

- Aspiring data scientist with a passion for ethical AI, machine learning, and socially impactful innovation. I aim to apply data-driven thinking and interdisciplinary skills to challenges.

EDUCATION

Arsha Vidya Mandir   **Chennai, Tamil Nadu|March 2011-March 2026**
- CBSE XII| Aggregated Score:
- CBSE X| Aggregated Score:375/500(2024) |IT:85%
- SAT Score:

CERTIFICATIONS 🔗

- IBM Data Science Professional (2025)
- Artificial Intelligence and The Rule of Law by UNESCO (2025)
- IBM Machine Learning with Python(2025)

SKILLS

- **Technical skills:**
  - **Programming & Data Science**: **Python** (NumPy, Pandas, Matplotlib, Seaborn), Data Wrangling and analysis. **Machine Learning & AI: Machine Learning algorithms** (Logistic Regression, Random Forest), **model evaluation** (ROC-AUC, classification metrics), **SHAP**, **permutation importance**, and **model explainability**. **AI Ethics & Responsible Technology**: Knowledge **of fairness audits**, **bias mitigation**, **prompt engineering**, and **principles of ethical AI development.**
- **Soft skills:**
  - **Strategic Problem-Solving** paired with **Agile Thinking & Rapid Learning**. **Critical Thinking & Research** accompanied with **Resilience**. **Teamwork & Leadership** accompanied with **Project Management & Communication.**
- **Languages:** English(fluent),Tamil(native).

PROJECTS

- **Python Railway Project:**
  - Built a Python-based railway booking system simulating seat allocation, fare computation, and availability. Demonstrated algorithmic logic, **input handling**, and **command-line automation** to replicate real-world transport infrastructure
- **Research Paper- "Why and How Do Hackers Hack":** 🔗
  - Researched the psychology and ethics of hacking, exploring motivations, vulnerabilities, and cybersecurity implications. Connected findings to **AI**

governance, **ethical data use**, and **algorithmic accountability** with 0.7% plagiarism.

- **Responsible AI College Admission:** 🔗
  - Developed a full-stack machine learning pipeline using **Random Forest**, **Logistic Regression**, and **SHAP** to predict college admission outcomes based on academic, extracurricular, and socio-demographic data.
  Implemented **cross-validation**, feature engineering, and **SMOTE** for class balancing; evaluated performance using **ROC-AUC** and permutation importance. Conducted fairness and bias analysis across income, school type, and parental education to ensure ethical and interpretable AI outcomes in education.

Leadership and Initiatives

- **Co-founded Green Warriors:** 🔗
  - In charge of a waste management and sustainability project in a residential neighborhood with more than 400 homes, I concentrated on eco-friendly methods, awareness campaigns, and waste segregation. The program **reached over 350 households**
- **Sports House Captain:**
  - Led the school house team, coordinated their participation in events, and ensured overall team progress.
- **Organized School Events:**
  - Organized Farewell, Annual day with precise planning, logistics and team coordination, successfully hosting over 320 attendees .
- **Co-founded & Lead photographer-PixelPop:**
  - Co-founded PixelPop, a student-led creative collective delivering 10+ paid photoshoots beyond school events. Led visual storytelling, editing, and creative direction in collaboration with classmates and seniors.

Awards and Extracurriculars Achievements

- **Best Athlete Award:**
  - Won for 4 consecutive years.
- **Represented School in Cricket:**
  - Took part in inter-school cricket competitions.

Creative and Freelance Work

- **Photography and Freelance Experience:**
  - Captured key school events such as Annual Day, and Farewell. Mentored junior members and contributed to developing a school-wide visual archive. Refined skills in composition, lighting, and editing through continuous hands-on experience and creative exploration. My curated work can be viewed here: [View Portfolio.](#)