

ATHARVA Keni

Blackwell Hall, Durant Ave, Berkeley, CA | (+1) (510)-679-4722 | adkeni@berkeley.edu |
Inventor, Patent # 11403720 (USPTO)

PROFESSIONAL SUMMARY

Passionate and motivated innovator and Computer Engineering student (Senior) at UC Berkeley (B.S. EECS, expected 05/2027) with a detail-oriented and problem-solver mindset. Skilled in predictive modeling, statistical analysis, and agentic workflows. Seeking AI/ML or Data Science roles to deliver practical, high-impact, research-oriented solutions.

EDUCATION

Bachelor of Science in Electrical Engineering and Computer Science

University of California, Berkeley | GPA: 3.1/4.0 | 08/2023 - 05/2027

- **Relevant Coursework:** Programming (Python/MATLAB), Data Structures (Java), Calculus, Linear Algebra & Differential Equations, Computer Architecture (Machine Structures), Thermodynamics & Quantum Mechanics, Data Science & ML (regression, classification, clustering, visualization, scalable data processing).
- **Club Interests:** Machine Learning, Neurotech, Cal Enviro (Focus on Environment).

International Baccalaureate - IBDP Program | STEM Focus

Bombay International School Mumbai, India | 07/2021 - 05/2023

SKILLS

- **Programming Languages:** Python, Java, C++, C, SQL, Pandas, HTML, RiscV (Assembly)
- **AI/ML/Data:** Large Language Model Operations (LLMOps), MLOps, Generative AI, Vertex AI, Agentic Workflows, NumPy, Scikit-learn, EDA, regression/classification, cross-validation, regularization
- **Software & Hardware:** Git/GitHub, Jupyter, Backend APIs, Arduino Circuits
- **Core Competencies:** Analytical, Problem Solving, Critical Thinking, Strong Oral and Written Communications, Organization Skills, Leadership Skills, Team

Collaboration, Innovation

WORK EXPERIENCE & PROJECTS

AI Engineer Intern

PwC India | Mumbai, India | 05/2026 - Present

- Building and optimizing artificial intelligence and natural language processing solutions within the Cloud, Engineering & Data Analytics SBU.
- Developing backend APIs and scalable systems to streamline data workflows and improve context retrieval for advisory applications.
- Collaborating within the Advisory Line of Service to deploy high-signal machine learning tools that drive operational efficiency.
- Writing clean, executable code to support practical, human-centric software projects leveraging Vertex AI and LLMOps practices.

Technical Support Engineer

UC Berkeley | 08/2025 - Present

- Performed real-time hardware diagnostics and fault isolation on complex audio-visual signal chains, resolving physical layer and connectivity issues to minimize system downtime.
- Conducted root cause analysis on hardware failures and peripheral interfaces, ensuring operational integrity of distributed instructional technology systems.

EEG-Based Brain-Computer Interface (BCI) Researcher

08/2025 - Present

- Developing BCI system to biologically assess learning gaps by modeling dynamic learning efficiency.
- Implementing a novel approach combining Riemannian Procrustes Analysis (RPA) for robust signal processing and manifold alignment.
- Applying Linear Discriminant Analysis (LDA) and optimization constraints to classify cognitive states and align statistical manifolds of EEG data utilizing Python, Scikit-Learn, NumPy, and Signal Processing.
- Solving complex optimization problems to classify cognitive states, successfully bridging biological signal processing with interpretable machine learning models.

Principles and Techniques of Data Science (Data 100)

06/2025 - 08/2025

- Mastered the end-to-end data science lifecycle, utilizing Python, Pandas, and SQL for robust data extraction, cleaning, and exploratory data analysis (EDA).
- Implemented machine learning models including Linear/Logistic Regression and Decision Trees using Sci-Kit Learn, while applying cross-validation, regularization,

and gradient descent techniques to optimize model accuracy and manage the bias-variance tradeoff.

PUBLICATIONS

- **USPTO Patent Number 11403720 (Water management system for water conservation) | 08/2022**
Inventor of Water management system for water conservation. Performed research and filed patent which has been granted and issued by the United States Patent and Trademark Office.
- **USPTO Patent Publication # 16994597 | 05/2022**
Inventor of air monitoring and control system for air quality and conservation. Performed research and filed patent which has been published by the United States Patent and Trademark Office.

AWARDS & SCHOLARSHIPS

- Rank 30th in country AMC | Qualified for AIME | 01/2022
- 1st Position - 10th Grade Math subject National Level Board exams | 06/2020
- Math subject Topper 9th National Level board exams (100/100) | 06/2019