

Joseph Chandler

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SUMMARY

Graduate student specializing in Machine Learning and Artificial Intelligence, exploring innovative solutions for geospatial analysis. Enthusiastic about optimizing vision-language models to enhance satellite imagery processing. Strong proficiency in Python complements expertise in deep learning frameworks like TensorFlow and PyTorch. Proven ability to collaborate with multidisciplinary teams, contributing effectively on projects addressing environmental challenges through technology. Passionate about merging academic insight with practical application, creating impactful strategies to derive meaningful insights from vast geospatial datasets. Eagerly looking forward to applying research knowledge in a hands-on internship role.

EDUCATION

Master's Degree in Computer Science2026

University of California, Los AngelesGPA: 3.8Los Angeles, CA

Coursework: Machine Learning, Artificial Intelligence, Data Analysis, Geospatial Analysis

TECHNICAL SKILLS

- **Programming Languages:** Python,R,C++,Java
- **Deep Learning Frameworks:** TensorFlow,PyTorch,Keras
- **Geospatial Tools:** GDAL,GeoPandas,QGIS
- **Version Control Systems:** Git,Github,Bitbucket
- **Development Methodologies:** Agile,Scrum,Kanban
- **Machine Learning Techniques:** Supervised Learning,Unsupervised Learning,Reinforcement Learning
- **Data Visualization Tools:** Matplotlib,Seaborn,Tableau
- **Database Management Systems:** SQL,PostgreSQL,MySQL
- **Cloud Computing Platforms:** AWS,Google Cloud,Azure
- **APIs and Web Services:** REST,GraphQL,SOAP

SKILLS

- Python
- GDAL
- Computer Vision
- TensorFlow
- GeoPandas
- Natural Language Processing
- PyTorch
- Machine Learning
- Data Analysis

EXPERIENCE

Machine Learning Research AssistantJanuary 2025 - Present

University ProjectLos Angeles, CA

Engaged in innovative machine learning initiatives focused on the analysis of satellite imagery and associated geospatial data. Collaborated closely with multi-disciplinary researchers while developing algorithms that improve model performance, enhancing capabilities in Earth observation tasks.

- Optimized machine learning models for analyzing satellite imagery, significantly improving data accuracy.
- Developed prototypes for real-time processing of geospatial datasets utilizing GDAL and GeoPandas technologies.
- Contributed to building natural language querying systems integrating Earth observation data for ease of access.
- Executed preprocessing steps on various datasets to enhance training efficiency and output quality.
- Evaluated feature detection algorithms leading to improved classifications within satellite imagery.
- Presented findings at a university tech showcase, garnering attention and feedback from industry professionals.

Data Science InternJune 2024 - December 2024

University Research LabLos Angeles, CA

Focused on implementing deep learning workflows aligned with sustainability efforts through environmental data monitoring by employing collaborative methodologies that favored peer contributions.

- Assisted with deep learning models aimed at deriving actionable insights from computer vision applications applicable to environmental phenomena.
- Conducted analyses using Python, refining model parameters for enhanced predictive accuracy across relevant metrics.
- Participated in diverse team-based projects focusing on effective multi-modal data integration strategies, boosting holistic monitoring efforts.
- Performed insightful code reviews which aided in improving peer project outcomes significantly.

- Actively contributed in dynamic research discussions concerning optimization strategies for models during weekly meetings.
- Documented comprehensive project progress, ensuring seamless knowledge transitions within group activities.

Team Lead, AI for Earth
Hackathon Project

March 2024
Los Angeles, CA

Led a vibrant team initiative aimed at generating AI-driven solutions targeting critical environmental issues, emphasizing creative application of technology.

- Directed a hackathon team in crafting an innovative solution focused on deforestation detection through satellite imagery analysis.
- Utilized tools such as TensorFlow and Python to develop a user interface facilitating data visualization of results.
- Achieved third place recognition, underscoring the project's applicability to real-world environmental management challenges.
- Fostered working relationships with mentors who provided guidance in refining project objectives toward feasible solutions.
- Showcased our work to a panel, underlining substantial opportunities for further real-world adoption.
- Collaborated across disciplines to ensure balanced involvement synergies on project deliverables.

LEADERSHIP & AWARDS

- Dean's List, University of California, Los Angeles, 2025
- Second Place, University Data Science Competition, 2025

CERTIFICATIONS

- TensorFlow Developer Certificate 📅 2026
- Python for Data Science and AI 📅 2025

PROFESSIONAL AFFILIATIONS

- Member, Computer Science Graduate Society, 2024 – Present
- Volunteer, Environmental Data Analysis Workshop, 2024

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST