

Data Card — OASIS Alzheimer's Demographics Dataset

Project Author	Project Title	Last Updated
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Dataset Overview

This data card describes a subset of the publicly available OASIS (Open Access Series of Imaging Studies) longitudinal demographics dataset. The dataset contains demographic and clinical information from older adults, including individuals diagnosed with Alzheimer's disease and cognitively normal controls. For this project, only baseline visits are used to ensure each participant is represented once.

Dataset at a Glance

- Dataset type: Observational, human-subjects data
 - Access: Public
 - Unit of observation: Individual participant
 - Study design: Cross-sectional (baseline visit only)
 - Sample size: >100 participants
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Key Variables

Variable	Type	Description
MMSE	Numeric	Mini-Mental State Examination (MMSE) score measuring cognitive performance

EDUC	Numeric	Years of formal education completed
Group	Binary	Clinical status (Alzheimer's disease vs. cognitively normal)
Age	Numeric	Age at time of visit
SES	Numeric	Socioeconomic status score

Intended Usage

This dataset is used for an academic statistics project examining whether education level is associated with cognitive performance differently for individuals with and without Alzheimer's disease. The data are used for exploratory analysis and visualization only and are not intended for clinical or diagnostic purposes.

Source and Access

- Dataset: Open Access Series of Imaging Studies (OASIS)
 - Publisher: Washington University School of Medicine
 - Website: <https://sites.wustl.edu/oasisbrains/>
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Privacy and Ethics

The dataset is fully de-identified and publicly available. It does not contain personally identifiable information. Because the data are anonymized and used for educational purposes, the risk of participant re-identification is minimal.

Data Processing Notes

Only baseline visits (Visit = 1) are included to avoid repeated measurements from the same participants. Rows with missing values in key variables (MMSE, EDUC, Group) are excluded prior to analysis.

Exploratory Analysis Plan

Planned analyses include summary statistics, scatterplots of MMSE versus years of education, and comparisons of MMSE scores across diagnostic groups. Visualizations are designed to support interpretation in an introductory statistics context.